

Patrick Schmalstig

1417 Cimarron Circle

Fairborn, Ohio 45324 United States

Mobile: 937-490-9775

Email: admin@pdstig.me

Work Experience:**Chief Engineer****WWSU 106.9 FM**

3640 Colonel Glenn Hwy.

018 Student Union

Dayton, OH

5/2017 - 4/2022**Salary:** \$11.25 USD Per Hour**Hours per week:** 15**Duties, Accomplishments and Related Skills:**

As chief engineer, I ensured all radio equipment was operational, up-to-date, and in compliance with the standards of the Federal Communication Commission (FCC). I also developed new features and installed new equipment to address developing needs for the station. My duties included maintaining and updating all computers, maintaining the software and API I developed for the station, repairing radio equipment and wiring, upgrading equipment as necessary, cooperating with other radio personnel, researching FCC regulations and assessing WWSU compliance, and operating / testing the Emergency Alert System.

* I transitioned the station back to RadioDJ automation system from SAM Broadcaster during my previous run as chief engineer. SAM Broadcaster had numerous bugs, and the company did not respond to support requests. RadioDJ had remote control capabilities by this point.

* I developed a public API for the radio station using Node.js and the Sails.js Model-View-Controller framework with a MySQL database. The API allowed me to develop a new website for the station using websocket data streams for real-time information updates. The API also granted numerous additional capabilities for the station, including the ability to remotely control some station functions off-site, analyze various station statuses (music library, software, equipment, website, etc) and report detected issues, offer a way for other apps and websites to pull data (such as what's on the air) from WWSU, manage organization memberships and employees / timesheets, log station operations, track radio show performance and analytics, operate a blogs system, manage studio reservations and authentication, operate a programming calendar system with automatic conflict resolution by show priority, remotely trigger the delay system (remote broadcasts), offer display signage interfaces on campus to advertise programming and events, manage equipment inventory, offer a track requests system, communicate with RadioDJ to control its programming automatically for various functions, provide push notifications / subscriptions so listeners can be notified of their favorite radio shows going on the air or being re-scheduled, manage and schedule commercials / underwritings, and monitor / report weather conditions.

* I developed a front-end user interface application to consume and use the public API for WWSU. The application utilized the Electron.js framework and was written in JavaScript / Node.js / HTML / CSS. The application made it immensely easier for station personnel to use the API, and radio talents to manage their radio shows, without needing to be tech-minded. It also enabled the station to air high-quality remote broadcasts, especially for live sports coverage, without needing a producer in the studio. The application contained the described features of the public API, plus remote audio streaming capabilities for remote broadcasts via WebRTC / Chromium Web Audio API and automatic failsafes for silence / network disconnections, on-air silence detection and reporting, automatic recording of on-air programming organized by genre or show, and a lockdown system to prevent others from using the studio computers unless they were an org member or employee in the system and had a scheduled show or reservation.

Supervisor: Debbie Lamp (937-775-5566)

Okay to contact this Supervisor: Yes

Junior PHP Developer

ocProducts, Ltd.

11008 66th Street
Kenosha, WI

3/2016 - Present

Salary: \$10.00 USD Per Hour

Hours per week: 1

Duties, Accomplishments and Related Skills:

As a Junior PHP Developer, I assist with the development of the ComposrCMS (formerly ocPortal) Content Management System developed by ocProducts, Ltd. My duties include implementing new features, fixing bugs, testing for software stability and usability, researching other Content Management Systems for ideas on improving ComposrCMS, and creating or updating documentation. I also fulfill work orders made by entities who contract ocProducts for web development work.

* In 2017, I completed a large-scale research project into over 100 other Content Management Systems. I researched their available features, UI/UX design, stability, security, target demographics, pricing and support models, and development principles. ocProducts Ltd. utilized the findings of this research to improve ComposrCMS for the end-user.

Supervisor: Chris Graham (262-344-0280)

Okay to contact this Supervisor: Contact me first

Chief Engineer

WWSU 106.9 FM

3640 Colonel Glenn Hwy.
018 Student Union
Dayton, OH

5/2014 - 4/2016

Salary: \$11.19 USD Per Hour

Hours per week: 15

Duties, Accomplishments and Related Skills:

As chief engineer, I ensured all radio equipment was operational, up-to-date, and in compliance with the standards of the Federal Communication Commission (FCC). I also developed new features and installed new equipment to address developing needs for the station. My duties included maintaining and updating all computers, repairing radio equipment and wiring, upgrading equipment as necessary, cooperating with other radio personnel, researching FCC regulations and assessing WWSU compliance, and operating / testing the Emergency Alert System.

* Developed a Visual Basic application for radio talents to specify what they were playing on the air (on the website) and to easily transition between shows and breaks. This significantly reduced the number of clicks and operations necessary in the automation system (RadioDJ) for a radio talent to go on the air, and it informed web visitors what was playing on the air.

* Transitioned the station's radio automation system from RadioDJ to SAM Broadcaster. SAM Broadcaster allowed for more fine-grained control over what played on the air automatically thanks to the PAL scripting language. SAM Broadcaster could also be controlled remotely, unlike RadioDJ at the time, allowing me to integrate my Visual Basic application to it to control programming as talents began / ended their shows or went to break.

* Transitioned the station's website from the Wordpress Content Management System (CMS) to ComposrCMS. ComposrCMS enabled more customization of web pages and social features for station personnel and radio

talents. It allowed for the website to be sectioned off by show (with custom themes / forums). And it allowed web visitors to chat in real-time with radio talents.

Supervisor: Debbie Lamp (937-775-5566)

Okay to contact this Supervisor: Yes

Founder

LoveyCube

1351 Wyoming Street

Dayton, OH

9/2014 - 11/2017

Hours per week: 20

Duties, Accomplishments and Related Skills:

I utilized many of the technologies from the discontinued WRRJ Radio project to develop The Lovinity Community (later called LoveyCube). I created LoveyCube to be a safe and civil online social community for support, discussion of difficult topics, debating, dating, and finding friends. The technologies I incorporated include PHP / ComposrCMS (formerly ocPortal) Content Management System, Arrowchat (web chat system), Ubuntu / Rivendell Radio Automation System (later switched to Windows / RadioDJ), Icecast audio streaming server (later switched to Shoutcast), CentOS 7 web server and Plesk management panel, MySQL database, and Discord chat / VOIP (including a Node.js Discord bot integrating features with the website). My duties included maintaining and keeping up-to-date the website / web server, internet radio station, and Discord server; managing a team of staff to help operate the community; writing comprehensive policies, documentation, and training exercises; writing and releasing weekly community newsletters; and making final decisions regarding moderation and what pathways the community should take.

* In 2015, I created a Discord server to complement the website and provide a new, real-time means of communication among members. I also constructed a Node.js bot to bridge the Discord server and website together; members could log in to the website using their Discord account and receive rewards based on both website and Discord contributions. Furthermore, moderators could track disciplinary records between both platforms. Initially, membership of the community only grew from about 30 to about 50 members after the institution of Discord.

* In 2016, I elected a co-administrator / vice president to the community. She brought many valuable skills and assets to LoveyCube which ultimately helped it grow from about 50 members to a peak of about 350 members in late 2017. Our cooperation, in addition to our staff expansion, also increased member engagement and activity in the community. We regularly hosted social events multiple times per week which members attended and enjoyed. And members developed a stronger sense of bonding and friendship with each other.

* I expanded on ComposrCMS' original warnings system to include additional ways for moderators to issue corrective action to unruly members instead of simply relying on bans and suspensions. For example, moderators could require accountability actions such as writing apologies or reviewing educational material. I also instituted a demerits system where rule violations carried demerits, and members would be suspended / banned after earning a number of demerits. Furthermore, I bridged the website disciplinary system with the Discord bot so that discipline was shared between both platforms (for example, if a member was suspended from the website, the Discord bot would remove interaction permissions so they also could not interact in the server during their suspension).

* I wrote comprehensive documentation on the rules and policies of the community. And I developed a staff training system. These combined documents improved staff efficiency and reduced uncertainty in what actions to take for unruly behavior in the community. The documents also reduced uncertainty among members regarding community expectations and built trust and transparency between members and staff.

* I integrated Arrowchat with ComposrCMS to bring chat and instant messaging capabilities to the website which were more effective than ComposrCMS' built-in chat and IM system.

* I developed a credibility system where members had a public credibility score / pie chart depending on the likes / dislikes received on content, gifts received from other members, and disciplinary actions earned. This served as a loose indication of how trustworthy each member was and how much content they have contributed. This encouraged members to engage often and follow the community guidelines.

* I assisted ocProducts with ComposrCMS development via several bug fixes and feature ideas thanks to my customized use of the software for LoveyCube.

Supervisor: Patrick Schmalstig ((937) 490-9775)

Okay to contact this Supervisor: Yes

Volunteer -- Supply Distribution

Kettering Medical Center

3535 Southern Blvd

Kettering, OH

1/2011 - 1/2014

Hours per week: 8

Duties, Accomplishments and Related Skills:

As a supply distribution volunteer, I assisted other Supply Distribution Department employees with the distribution and inventory of hospital supplies. I routinely stocked supply shelves at various floors and sections of the hospital, especially the Emergency Room. I delivered hospital supplies and equipment as ordered. And I cleaned and sanitized hospital equipment. I frequently filled in during periods of short staff, such as holidays and winter storms.

Supervisor: Mrs. McCormick ((937) 298-4331)

Okay to contact this Supervisor: Contact me first

Founder

WRRJ Radio

1602 Nelson Ave

Dayton, OH

8/2007 - 8/2014

Hours per week: 20

Duties, Accomplishments and Related Skills:

I founded and constructed the non-profit WRRJ internet radio station and website with the help of a couple friends out of interest in radio and streaming. I incorporated numerous technologies into the radio system: Rivendell Radio Automation System (Linux / Ubuntu), Icecast / Darkice audio streaming server, PHP scripting language (with the ocPortal Content Management software, later called ComposrCMS), MySQL database, HTML/CSS, and the Jitsi VOIP software. My duties included maintaining the radio system and web server / website to ensure it was up-to-date and functional, developing new features, moderating the content in the social areas of the website and in pre-recorded radio shows, promoting the station, and establishing connections and networks with people who were interested in utilizing the radio platform.

* In January 2011, I affiliated WRRJ with a local spiritual community, the Center for Spiritual Living of Greater Dayton, and began remotely streaming their Sunday Celebration Services on the platform. This enabled members unable to attend in person the ability to listen to the service from home. Furthermore, I established an evening program where members could call in and discuss the sermon.

* In 2011, I incorporated the calendar system on the website and the remote API of the Rivendell Radio Automation System. This allowed others to host their own pre-recorded radio shows on the platform with little to no maintenance. Previously, only live shows were possible through Jitsi. This feature doubled the number of shows on the platform. It also allowed others to upload community announcements and promotions to be aired regularly.

* In 2013, I registered WRRJ Radio as a religious organization with the IRS and established a Board of members. The Board, consisting of a president (myself), vice president, secretary, and treasurer, met monthly to discuss WRRJ operations, programming, and future plans.

Supervisor: Patrick Schmalstig ((937) 490-9775)

Okay to contact this Supervisor: Yes

Education:

Wright State University Dayton, OH United States

Bachelor's degree 4 / 2022

GPA: 3.024 of a maximum 4.0

Credits Earned: 155 Semester Hours

Major: Media Studies; Women, Gender, & Sexuality Studies

Language Skills:

Language	Spoken	Written	Read
Sign Languages	None	Intermediate	Novice

References:

Name	Employer	Title	Phone	Email
Debbie Lamp (*)	Wright State University	Associate Director of Student Involvement and Leadership	937-775-5566	debra.lamp@wright.edu
Shea Neal	Wright State University / WWSU 106.9 FM	General Manager	937-781-6915	neal.89@wright.edu
Stephanie Johnson	Psychic Stars	Psychic / Consultant	937-310-6161	angelness67@icloud.com
Chris Graham (*)	ocProducts, Ltd.	CEO / Founder	262-344-0280	chris@ocproducts.com
Richard Kosvanec	Bureau of the Fiscal Service		681-229-7007	rkosvanec@gmail.com

(*) Indicates professional reference
