Alexander Root-Roatch

920-479-0338 | arootroatch@gmail.com
arootroatch-dev.vercel.app
linkedin.com/in/arootroatch | github.com/arootroatch

README.md

As a business owner, I began teaching myself how to code in order to create my own unique web pages. I fell in love with programming's ability to solve problems, and since then I've written multiple automations for my payroll and invoicing. I love learning as much as possible and have completed four web development certifications to date. With these projects and certifications under my belt, I'm looking to make a full-time career shift into Web Development.

Technical Skills

- HTML, CSS, JavaScript, TypeScript, VBA, Bash
- React (Vite & Next.js), Express.js
- SCSS, Tailwind, Bootstrap
- MongoDB

- MacOS, Windows, iOS, Android
- Git & GitHub
- Spanish - Professional Proficiency
- Internet Protocol and Domain Management

Projects

Gift Exchange Generator {HTML, CSS, JavaScript, Node.js, MongoDB Atlas, Postmark API, Verifalia}
– *Live Site* – *GitHub Repository*

- Developed and maintained a mobile-optimized Secret Santa web app with hundreds of active users
- Implemented UI for Creating, Reading, and Updating data in a MongoDB Atlas Cluster
- Wrote a recursive algorithm that populated Objects and Arrays based on location of names in the DOM and randomly paired names together while accounting for user-defined exclusions
- Leveraged Continuous Integration with Git and Netlify with branch deploys for testing new features

Sound Roots Productions Payroll and Invoicing Automation {VBA} – *GitHub Repository*

- Developed automations that save ~$2000/per year in labor and software expenses
- Automated the formatting of invoices and paystubs based on contents
- Automated the generating of PDFs, writing emails, and sending emails all inside of Microsoft Excel

Education

University of Wisconsin Oshkosh

- Bachelor of Music - Recording Technology
- Bachelor of Arts - Spanish Language and Literature
  - Studied abroad at the University of Salamanca, Spain
- GPA: 3.2

Certifications - freeCodeCamp

- Responsive Web Design
- JavaScript Data Structures and Algorithms
- Front End Development Libraries
- Back End Development and APIs

Work Experience

Sound Roots Productions {Owner/Production Manager/Web Developer}   *June 2019 – Present*

- Code customized automation solutions for payroll and invoicing that saves ~$2,000 a year.
- Develop and maintain all websites and online presence as well as being domain administrator
- Implement automations for tracking repairs and connecting musicians to sound engineers
- Install access points, mesh WiFi, HDMI over IP video matrices, and concert audio and lighting systems
- Hire, train, and manage audio and lighting technicians at five locations across three cities

VER {Audio Quality Control Technician}   *Nov 2017- June 2019*

- Built and configured large-scale audio systems for concerts and conferences
- Configured redundant Dante audio-over-ethernet and fiber-optic networks
- Configured wireless access points and productions LANs
- Configured wired and wireless communication systems such and ClearCom, FreeSpeak, and RTS
- Worked alongside touring audio engineers and technicians to get their system ready
- Learned rapidly and quickly progressed from being new to large-scale systems to being a go-to resource for system prep and troubleshooting