

Alexander Root-Roatch

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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 generating PDFs and writing 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 as 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