DAVIS DELOACH

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EDUCATION

Tennessee Technological University   **Cookeville, TN**

Bachelor of Science / Major in Computer Science   December 2024

- Seven time recipient of Dean's List Academic Achievement Award   GPA – 3.9

EXPERIENCE

APS Solutions   **Cookeville, TN**

Software Developer   2024 – Present

- Assigned tasks such as bug fixes, features, or security risks.
- Utilized Git for version control.
- Consistently contributed to team success through effective communication, cooperation, and a proactive approach to achieving shared goals.
- Used Django to host backend and create models to be stored with MariaDB.
- Wrote frontend Django templates in HTML using jinja tags to interface with backend.
- Handled self-paced, self-assigned issues in a timely manner.
- Applied problem solving skills to create solutions to loosely defined problems.

Tennessee Technological University   **Cookeville, TN**

Teaching Assistant   2023

- Assisted professor in grading assignments.
- Met with students to explain concepts and answer questions.

Tennessee Valley Authority   **Chattanooga, TN**

Intern/Co-op   2022

- Lead development of an internal employee organization system utilized company wide.
- Furthered knowledge working with database manipulation.
- Utilized Power Apps, Power BI, and Power Automate to create workflows.
- Presented capstone project to several company managers.

ORGANIZATIONS AND LEADERSHIP

Stone Hill Properties LLC - Owner   **Hixson, TN**

                                                                                                                    2022 – Present

PROJECTS

FarmFolio

ReactJS | Node.js | MariaDB | AWS

- Senior capstone project developed using Node.js, React.js, and MariaDB, hosted on AWS, aimed at optimizing farm management.
- Collaborated with a large team to integrate real-time weather data through an external API, helping improve decision-making for farm operations.
- Designed and implemented a clock in/out feature to track employee hours and calculate total time worked.
- Focused on creating a user-friendly experience that streamlined task management and data-driven decision-making for users.

Oak Ridge National Laboratory: Hazardous Materials Disposal Tool

ReactJS | Node.js | SQLite | Tesseract.js | AWS | Tailwind

- Developed a web application for using ReactJS and Node.js with SQLite as the database to assist in the safe disposal of hazardous materials.
- Integrated Tesseract.js to enable optical character recognition (OCR) for scanning CAS numbers from product labels.
- Designed and implemented a step-by-step guide for users, offering proper disposal instructions for hazardous materials based on the scanned information.
- Emphasized user-friendly interface and seamless experience, improving accessibility to critical environmental safety practices.
- Focused on rigorous testing and validation to ensure accuracy and reliability of OCR functionality and disposal instructions.
- Gained hands-on experience in full-stack development, emphasizing environmental impact and real-world problem solving.

Personal Projects

Proxmox | PfSense | TrueNAS | Tailscale VPN | WireGuard VPN

- Built and managed a production-grade home lab utilizing the Proxmox hypervisor and PfSense firewall.
- Deployed and maintained multiple services, including game servers, a TrueNAS instance, custom applications, and VPN configurations using Tailscale and WireGuard for secure remote access.

TECHNICAL SKILLS

- Programming Languages: C++, Python, SQL, Bash/Unix Scripting, NASM Assembly, Java, HTML, CSS, Javascript, Django, SQLite
- Tools: Tailscale and WireGuard VPN, Proxmox, PfSense, Node.js, React.js, Word, Excel, PowerPoint, Power BI, Power Apps, Power Automate, Git

TRAINING/CERTIFICATIONS

Purple Career Readiness Certification Recipient   November 2023

Tennessee Technological University - Center for Career Development

- Certification rewards students for active campus participation and attendance at job fairs and workshops designed to assist with career readiness and skill development in areas such as critical thinking, teamwork, communication, leadership, time management and conflict resolution. Based on NACE Career Competencies.

Tennessee Board for Licensing Contractors   November 2023

Tennessee Contractor's License

- Issued by: Tennessee Department of Commerce and Insurance

Six Sigma White Belt   April 2024

Six Sigma Online

- Certification ID: djI4NjU1My0yOTg
- Acquired an understanding of basic Six Sigma concepts, tools, and techniques for process improvement and quality management, focusing on efficiency and reducing waste.

Foundations of Git   April 2024

GitKraken Learn

- Certification ID: inr0lghxdl
- Certified in using GitKraken for advanced Git version control, showcasing skills in repository management, branching strategies, and collaboration within teams for efficient project workflow.

Tennessee Erosion Prevention & Sediment Control Program   July 2024

Level 1 Certified Personnel

- Certification ID: 151937