Cesar Lopez-Andrade

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WORK EXPERIENCE

Software Engineer - ASUCD Unitrans   Jun. 2022 – Present
Technologies - Django, Bootstrap, SCSS, NGINX, Docker, Redis, AWS, PostgreSQL   *Davis, CA*
- Migrated the Unitrans public website from Dell servers to AWS EC2 instance to enhance website performance for 40,000 daily riders in Davis.
- Enhanced staff workflow with new employee website features like internal email alerts, dynamic resource generation, and shift generation, saving significant work hours and costs.
- Upgraded website technologies such as Django, PostgreSQL, and JQuery to their latest versions to improve user experience and web security.
- Streamlined development setup by containerizing both the public and employee websites with Docker, saving significant development setup hours and costs.

Software Engineer - Include at Davis   Jan. 2024 – Jun. 2024
Technologies - Next.js, React.js, TypeScript   *Davis, CA*
- Implemented JWT-based authentication in TypeScript to secure user sessions, enhancing system security and providing robust protection against unauthorized access.
- Developed a comprehensive login verification system that checks user credentials, generates JWT tokens for successful logins, and handles authentication errors with custom error messages.
- Collaborated with team members to troubleshoot code, utilizing paired programming to improve development flow

Web Developer - The Tulip Girls   Jan. 2024 – May 2024
Technologies - HTML, CSS, PHP, WordPress   *Santa Rosa, CA*
- Developed a responsive E-commerce website for floral arrangements using WordPress CMS, PHP, HTML, and CSS, successfully resulting in more exposure and traffic to the business.
- Designed the website's structure and navigation by creating low-fidelity wireframes and comprehensive information architecture, improving user navigation and overall experience.
- Managed the post-development migration of the website, ensuring a smooth transition to live operation with minimal downtime and high client satisfaction.

Software Engineer - OneBusAway   Nov. 2023 – Mar. 2024
Technologies - Docker, Bash   *Davis, CA*
- Researched and applied findings to help run the real-time transit software, OneBusAway (OBA), in a Docker container to help facilitate an easier transit experience for Unitrans's 40,000 daily riders.
- Modified OBA Docker image to run without root privileges to improve security for transit agencies.
- Added multi-database support to OBA Docker image so that users of the container can run it with either PostgreSQL or MySQL.

Web Developer - Redemption House of the Bay Area   Jan. 2022 – Jun. 2022
Technologies - HTML, CSS, JavaScript   *Santa Rosa, CA*
- Revamped the website architecture and UI/UX experience to reach intended donors, resulting in thousands of dollars raised for events raising awareness about sex trafficking and support for victims.
- Improved the SEO of the revamped website, resulting in increased traffic by up to 70%.
- Contributed to the creation of documentation for managing the website for continuous maintenance.

TECHNICAL SKILLS

Languages: Python, C, C++, JavaScript, TypeScript, Bash, SQL (PostgreSQL)
Frameworks/Libraries: Bootstrap, Django, React.js, Next.js
Developer Tools: GNU/Linux, Git, Docker, Amazon Web Services (AWS)
Content Management Systems: WordPress
Certification(s): AWS Certified Cloud Practitioner

EDUCATION

University of California, Davis   Davis, CA
Bachelor of Science (BS) - Computer Science

Santa Rosa Junior College   Santa Rosa, CA
Associates of Science (AS) - Full-Stack Web and Mobile Development