

Cesar Lopez-Andrade

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EDUCATION

University of California, Davis

Bachelor of Science (BS) - Computer Science

Davis, CA

Sep. 2021 – Jun. 2024

Santa Rosa Junior College

Associates of Science (AS) - Full-Stack Web and Mobile Development

Santa Rosa, CA

Jan. 2022 – Dec. 2023

TECHNICAL SKILLS

Languages: Python, C, C++, JavaScript, TypeScript, Bash, SQL (PostgreSQL), Java, PHP, Perl, R

Frameworks/Libraries: Bootstrap, Django, Express.js, React.js, Node.js, Next.js, Handlebars

Developer Tools: GNU/Linux, Git, Docker, DBaver, Amazon Web Services (AWS)

Content Management Systems: WordPress, Drupal

WORK EXPERIENCE

Web Programmer - Unitrans

Jun. 2022 – Present

University of California, Davis

Davis, CA

- Migrated the Unitrans public website from Dell servers to Amazon Web Services (AWS) ECS2 instance to improve website performance for 40,000 daily riders in Davis.
- Created documentation for SSH protocols and virtual environment set up for onboarding web programmers.
- Fixed bugs and developed new features for improved user experience via Django framework.
- Optimized SQL queries for faster retrieval of data to improve user and employee experience.
- Incorporated best accessibility practices to ensure the Unitrans public website met ADA compliance.
- Led the upgrade of employee website technologies such as upgrading Django v1.8 to v4.2 to improve user experience, web security, and overall website performance.
- Utilized Docker to containerize local instance of both the public and employee website to streamline development setup for new web programmers.
- Configured firewall and installed critical software on Windows OS computers.

Software Engineer - Include at Davis

Jan. 2024 – Jun. 2024

University of California, Davis

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.
- Developed and integrated a secure login form, implementing data sanitation practices to prevent SQL injection and XSS attacks, ensuring robust data security and protecting user information.
- Collaborated with team members to troubleshoot code, utilizing paired programming to improve development flow

Software Engineer Intern - OneBusAway

Nov. 2023 – Mar. 2024

University of California, Davis

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.
- Deployed OneBusAway's Docker Instance on Azure to help facilitate an easier transit experience for Unitrans' riders.

Web Programmer - ASUCD

Jun. 2023 – Sep. 2023

University of California, Davis

Davis, CA

- Worked with Active Directory to set up new computers for various departments for ASUCD.
- Created a development website for Unitrans public website using the Linux, NGINX, MySQL, and PHP (LEMP) stack to produce a revamped Unitrans website.
- Configured firewall and installed antivirus software on Windows OS computers for various departments within ASUCD to replace outdated/broken computers.
- Created documentation for computer configuration and installation.

PROJECTS

- Portfolio Website** | *HTML, CSS, TypeScript, React.js, Next.js* Jun. 2024 – Present
- Implemented a responsive, interactive, and well-designed portfolio website using Next.js framework.
 - Utilized JSON data to populate sections of the website relating to experiences and personal projects.
- The Tulip Girls (Client)** | *HTML, CSS, JavaScript, PHP, WordPress CMS* Jan. 2024 – May 2024
- Developed website utilizing WordPress CMS with PHP, JavaScript, HTML, and CSS.
 - Created low-fidelity wireframes to outline website structure.
 - Created information architecture to map out website navigation structure.
 - Led a team of developers in the content management and structure of the website.
 - Successfully migrated the website once development concluded.
 - Incorporated agile methodology to ensure organized development and communication between the development team and the client.
- The Redemption House of the Bay Area (Client)** | *HTML, CSS, JavaScript, GoDaddy* Jan. 2022 – May 2022
- Worked with development team to help revamp website architecture
 - Contributed to the UI/UX Design of the entire website.
 - Led the team on content management/structure of the website.
 - Contributed to the creation of documentation for managing the website.