

# Cesar Lopez-Andrade

707-889-4077 | [clopezandrade@ucdavis.edu](mailto:clopezandrade@ucdavis.edu) | [linkedin.com/in/cesar-lopez-andrade](https://linkedin.com/in/cesar-lopez-andrade) | [cesardev.com](https://cesardev.com)

## TECHNICAL SKILLS

---

**Languages:** Python, C, C++, JavaScript, TypeScript, Bash, SQL (PostgreSQL), Java, PHP, Perl  
**Frameworks/Libraries:** Bootstrap, Django, Express.js, React.js, Node.js, Next.js, Handlebars  
**Developer Tools:** GNU/Linux, Git, Docker, DBEaver, Amazon Web Services (AWS)  
**Content Management Systems:** WordPress, Drupal

## WORK EXPERIENCE

---

- Lead Web Programmer - Unitrans** Jun. 2022 – Present  
*University of California, Davis* *Davis, CA*
  - Migrated the Unitrans public website from Dell servers to AWS EC2 instance and optimized SQL queries to enhance website performance for 40,000 daily riders in Davis.
  - Developed key functionalities for the employee website, such as Google Calendar export for driver shifts and an internal emailing protocol for form submissions.
  - Led technological upgrades, including upgrading Django from v1.8 to v4.2 and incorporating ADA compliance, significantly improving user experience and security.
  - Streamlined development processes by containerizing both the public and employee websites with Docker and creating comprehensive documentation for SSH protocols and virtual environment setup.
- 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.
- 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 a Unitrans using the Linux, NGINX, MySQL, and PHP (LEMP) stack to produce a revamped Unitrans website.
  - Configured firewall via PfSense 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.

## EDUCATION

---

- University of California, Davis** Davis, CA  
*Bachelor of Science (BS) - Computer Science* Sep. 2021 – Jun. 2024
- Santa Rosa Junior College** Santa Rosa, CA  
*Associates of Science (AS) - Full-Stack Web and Mobile Development* Jan. 2022 – Dec. 2023