

Jose H. Cortes

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Summary

Software Engineer specializing in web development and UI/UX design. Proficient in **JavaScript**, **React.js**, and **C++**, with experience building responsive, user-friendly web applications. Passionate about contributing technical expertise to impactful software projects.

Skills

- **Programming Languages:** JavaScript, TypeScript, C++, Python, PHP, SQL
- **Frameworks & Libraries:** React.js, Next.js, Node.js, TensorFlow, Keras
- **Web & UI Design:** HTML, CSS, Sass, WordPress, Figma, Adobe Creative Cloud, Sketch, Framer
- **Data & APIs:** REST API Development, JSON, Cloud Storage (DigitalOcean Spaces), Data Analytics
- **Development Tools & DevOps:** Git, GitHub, GitHub Actions, VS Code, IntelliJ, Postman
- **Performance Optimization:** Lighthouse, PageSpeed Insights, WebPageTest, SEO Basics
- **Quality Assurance & Security:** Debugging, Security Fundamentals, Chrome DevTools

Experience

Web/Mobile & UX Design Assistant

June 2024 - Present

Fresno State Technology Services

- Developed interactive user interfaces in **React.js** for Bulldog Genie, Fresno State's AI-powered student assistant, aligning designs with university branding.
- Created 20+ wireframes, prototypes, and personas in **Figma** to streamline user flow and improve the student digital experience across platforms.
- Participated in weekly stand-ups within an **agile** framework, collaborating with the Digital Transformation team to deliver 6+ screens and interface updates, meeting sprint deadlines and ensuring feature alignment.
- Researched student preferences, contributed to UX strategies enhancing accessibility and usability, and maintained Fresno State's web content through Omni CMS to meet accessibility standards.

Web Designer/Developer

May 2023 – August 2024

Fresno State Student Housing

- Developed a **Node.js** and **PHP** script to automate weekly dining menu updates, reducing manual work by 90% and achieving 95% accuracy, ensuring timely information for residents.
- Leveraged **WordPress**, **JavaScript** and **PHP** to implement dynamic content management, boosting engagement with an average time on page of 3m 24s and over 151K total impressions.
- Improved search visibility via SEO strategies, achieving presence in 5.3K keywords and consistently high page rankings, resulting in 4K monthly clicks and significant traffic retention post-events.

Education

California State University, Fresno – Bachelor of Science in Computer Science

Expected Graduation: May 2025

Relevant Coursework

Artificial Intelligence Programming | Web Programming | Introduction to Software Engineering |
Applied Biometric Security | Computer Security | Introduction to Data Structures

Projects

Bulldog Genie – Generative AI Integration

React.js, Figma

- Designed and implemented user-friendly UI components following Fresno State branding to enhance accessibility, including mobile-friendly screens for improved student interaction across devices.
- Collaborated with cross-functional teams to develop and deploy key chatbot functionalities, such as dining services guidance, in progress toward full beta release and student usability testing.

GAN-Based Keystroke Verification Spoofing

TensorFlow, Keras, Python

- Developed a convolutional-recurrent GAN to simulate user-specific keystroke patterns, achieving up to a 55% acceptance rate in tests across 1,024 spoofed sequences, which demonstrated potential vulnerabilities in keystroke-based verification systems.
- Achieved a baseline classifier equal error rate (EER) of 7.5% across 157 subjects, advancing understanding of GAN-based spoofing adaptability and informing biometric security countermeasures.