

Jeremy Raphael Chang

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WORK EXPERIENCE

Full Stack Web Developer

Apr 2023 – Present

Azusa Pacific University – Azusa, CA

- Led a successful migration of critical backend tools and systems to a modern infrastructure using **PHP**, enhancing performance and reliability for high-traffic university websites.
- Automated repetitive web maintenance tasks via custom **Python** scripts, cutting overhead costs and improving operational efficiency across the digital ecosystem.
- Strategically restructured website content during the migration to a new CMS, reducing existing pages by 35%, improving site navigation, and optimizing user engagement.

Software Engineer

Oct 2023 – February 2025

Laminar Copilot – Remote

- Engineered and deployed a fully automated **Twilio API** integration within **Ruby on Rails** backend, enabling real-time driver notifications and reducing last-minute callouts, contributing to improved operational efficiency.
- Spearheaded the end-to-end development of Time Off Tracker in **React**, transforming PTO management for team leaders and streamlining workforce planning, resulting in an intuitive, highly responsive user experience.
- Collaborated closely with product and engineering teams from the startup's inception to the successful onboarding of the first two clients, contributing to the platform's initial revenue generation.

Software Engineer Intern

Jun 2022 – Sep 2022

Liferay – Diamond Bar, CA

- Developed and delivered 28 features for a client-facing web application, working over 170+ hours in tandem with senior engineers to learn the **OSGi framework** and Liferay's open-source Java code.
- Deployed a full-stack web application using **MVC** architecture, integrating **FTL**, **JSP**, **jQuery**, and **Java** within **Tomcat**, leveraging **Gradle** to streamline development and deployment processes.
- Presented key product updates to clients during weekly **Scrum sprint** meetings, showcasing progress and driving iterative improvements in collaboration with the client team.

IT-Grid Services Intern

Jun 2021 – Jun 2022

Southern California Edison – Rosemead, CA

- Built an internal web application with **HTML**, **CSS**, **JavaScript**, and **Python** to standardize engineers' operational tasks ensuring a set quality of work for all device configurations and increased the overall network reliability
- Automated inefficient tasks to decrease installation times by 450 days (10.8K manhours) over a 3-year period across 50+ sites
- Achieved \$700K in labor cost savings within three years through automation, minimizing direct labor expenses and optimizing resource allocation.
- Deployed the web application using Docker on an internal Linux server, ensuring scalable, containerized hosting and seamless integration into the company's infrastructure.

EDUCATION

Georgie Institute of Technology

Aug 2022 – May 2025

M.S. in Computer Science

University of California, Irvine

Jun 2022

B.S. in Computer Engineering, Minor in Information and Computer Science

AWARDS

Awards: *Grid Services DX Innovation Award (2021) – Southern California Edison:* Recognized out of 100+ projects for programming the Nokia Automation project, driving significant impact aligned with the company's vision.