

Yu Lo

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EDUCATION

- University of Washington – Seattle, MS, Electrical and Computer Engineering** 09/2025 – 06/2027
- Coursework: Data Structures and Algorithms for ECE Applications, Machine Learning Operations (MLOps: reproducible ML pipelines, CI/CD, model monitoring, Docker, Kubernetes), Software Engineering for Embedded Applications (C, C++)
- Northeastern University – Seattle, MS, Computer Science, GPA: 4.0 / 4.0** 01/2025 – 08/2025
- Completed MSCS coursework with 4.0 GPA; transferred to University of Washington MS ECE program

SKILLS

- Programming Languages:** Python, Java, JavaScript
- Frameworks & Libraries:** Flask, RESTful APIs, API Design, React.js, HTML/CSS/Tailwind CSS, XML, XSL
- DevOps & Cloud:** AWS (EC2, S3, Lambda), CI/CD pipelines, Observability & Debugging, Unix/Linux Environments
- Databases & Other Technologies:** SQL (MySQL, ANSI SQL), ETL Pipelines, Data Processing, GitHub, Jira

PROFESSIONAL EXPERIENCE

- PAREXEL** (Global clinical research and data services company, with 21,000+ employees across 50+ countries) 12/2018 – 11/2024
Senior Statistical Programmer – Backend Systems & Data Infrastructure (Software-focused)
- Engineered automated backend pipelines using **Python** with R and SAS for high-frequency clinical trial data, replacing manual processes with reproducible workflows; achieved 76% reduction in processing time through workflow optimization and automation improvements
 - Applied software engineering practices in **Unix/Linux environments**, including Git-based version control, **Jira defect tracking**, automated validation scripts (cut manual verification time by 43%), peer code reviews, and systematic **debugging**, ensuring reproducibility and maintainability
 - Developed modular, reusable **SQL transformation** components with cross-schema compatibility, leveraging **XML-based metadata** standards and technical specifications, enabling scalable integration across global databases while reducing code duplication by 58%
 - Collaborated with cross-functional teams (PMs, QA, compliance) to deliver secure, audit-ready data infrastructure, ensuring data integrity under FDA/EMA standards; passed 5+ global inspections with zero findings and guaranteed long-term system reliability
 - Led programming team of 6 for **Asia's first FDA-approved** nasopharyngeal carcinoma treatment, supporting regulatory approvals in 30+ countries and expanding access to life-saving therapy for thousands of patients worldwide

SELECTIVE PROJECTS

- Pinception: Chrome Extension for ChatGPT** (*Fullstack Extension Developer*) ([Live Site](#) / [GitHub](#)) 07/2025
Tech: JavaScript, Google Chrome Extension APIs, Chrome Storage API, CSS, Git
- Passionate about improving user experience, I built a Chrome extension for ChatGPT users to save, search, and reuse prompts, streamlining workflows with local-first storage and fast access UI
 - Launched on the Google Chrome Web Store with a 5/5 user rating, built with **JavaScript and Chrome Extension APIs**, delivering a privacy-first architecture and long-term maintainability for power users
- Xcelerate: AI Copilot for Excel Automation** (*Fullstack Developer*) ([GitHub](#)) 06/2025
Tech: Python, Flask, Google Gemini API, JavaScript, Tailwind CSS, Git
- Driven by curiosity to make technology more accessible, I developed a production-ready Excel automation platform that allowed non-technical users to perform complex spreadsheet operations via natural language, delivering **AI-generated transformations**
 - Architected a fullstack architecture with **Flask RESTful API** backend and responsive **JavaScript** frontend, incorporating robust error handling, automated testing, and flexible Excel processing (.xlsx/.xls) while preserving file integrity and metadata
 - Automated Excel workflows using natural language and Google Gemini API integration, reducing manual effort by 67% and improving productivity through Python-based transformation logic
- Personal Portfolio Website** (*Frontend Developer*) ([Live Site](#) / [GitHub](#)) 04/2025
Tech: React.js, Tailwind CSS, Framer Motion, JavaScript
- Designed a responsive personal website with dark/light mode and **mobile-first principles**, demonstrating proficiency in modern frontend frameworks and accessibility best practices

ADDITIONAL TRAINING

- Grow with Google SWE Career Mentorship Program** 08/2025 – 11/2025
- Selected through competitive application process to join Google's mentorship program focused on software engineering fundamentals, technical skill development, and career readiness
- AWS Solutions Architecture Virtual Experience** - Architecture Diagramming, AWS Cost Estimation, Tech. Communication 07/2025
- CodePath Web Development** - HTML5/CSS3, JavaScript (DOM & Events, Form Validation), React 02/2025 – 04/2025

TECHNICAL PUBLICATION

- First-author publication on SQL-based data processing pipelines and statistical modeling for large-scale longitudinal health data, *Drug and Alcohol Dependence*, 2019 ([Link](#))