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 (Java), Introduction to Database Systems, Software Engineering for Embedded Applications (C, C++), Machine Learning Operations (MLOps: reproducible ML pipelines, CI/CD, Docker)

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:** Python, Java, JavaScript, Typescript, C, C++, Go, SAS, R, Stata
- **Frameworks & Libraries:** HTML, CSS, Tailwind CSS, React.js, Flask, RESTful APIs, API Design
- **DevOps & Cloud:** AWS (EC2, S3, Lambda), CI/CD pipelines, Unix/Linux Environments
- **Databases & Tools:** SQL, Pandas, OpenPyXL, Algorithms & Data Structures, GitHub, Jira, ETL Pipelines, Data Processing

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 & Data Infrastructure (Software-focused)
(Progressed from Programmer I → II → Senior by leading backend automation and data infrastructure across global studies)
- Engineered automated backend pipelines using Python (with R/SAS) for high-frequency clinical trial data, replacing manual processes with reproducible workflows; reduced processing time from one day to two hours (~90% faster) through parallelization and process optimization
- Took ownership of a recurring validation issue across independent data-processing pipelines, built a Python-based duplication-detection framework using MD5 hashing, reducing manual QC time by 38% and improving reproducibility across projects
- Built error-handling, logging, and monitoring mechanisms in Unix/Linux environments to ensure reliable data pipelines, reducing manual verification time by 43%. Introduced Git workflows, code reviews, and debugging practice to improve code quality and maintainability
- Refactored legacy data workflows into modular, configuration-driven SQL transformation modules leveraging XML-based metadata standards, enabling cross-schema compatibility and reducing code duplication by 58% while improving scalability and maintainability
- 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, ensuring long-term system reliability
- Led a 6-member programming team, establishing structured code review pipelines for Asia's first FDA-approved nasopharyngeal carcinoma treatment, supporting regulatory approvals in 30+ countries and building scalable data infrastructure

SELECTIVE PROJECTS

Xcelerate: AI Copilot for Excel Automation *(Fullstack Developer)* ([GitHub](#))   08/2025
Tech: Python, JavaScript, HTML/CSS, Flask, Tailwind CSS, Pandas, Google Gemini API, Chrome Extension Development, Git
- Developed a production-ready Excel automation platform that allowed non-technical users to perform complex spreadsheet operations via natural language, delivering automated data transformations through AI
- 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

Pinception: Chrome Extension for ChatGPT *(Fullstack Extension Developer)* ([Live Site](#) / [GitHub](#))   07/2025
Tech: JavaScript/TypeScript, Google Chrome Extension APIs, Chrome Storage API, CSS, Git
- Created a Google Chrome extension for ChatGPT users to save, search, and reuse conversation prompts, reducing repetitive typing and improving workflow efficiency through 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

Personal Portfolio Website *(Frontend Developer)* ([Live Site](#) / [GitHub](#))   12/2024
Tech: React, JavaScript, HTML/CSS, Tailwind CSS, Framer Motion, Git
- Designed a responsive personal website with dark/light mode and mobile-first principles, demonstrating proficiency in modern frontend frameworks and accessibility best practices

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](#))

ADDITIONAL TRAINING

Grow with Google SWE Career Mentorship Program   08/2025 – 11/2025
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