

Yu Lo

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EDUCATION

University of Washington – Seattle , MS, Electrical and Computer Engineering	09/2025 – 06/2027
• Coursework: Introduction to Database Systems, Engineering Entrepreneurial Capstone, Software Engineering for Embedded Applications (C, C++), Machine Learning Operations, Data Structures and Algorithms for ECE Applications (Java)	
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	

SELECTIVE PROJECTS

NASA JPL Capstone Project: AI Testbed Operations Assistant (<i>Role: Software Engineer</i>)	12/2025 – 06/2026
Tech: Python, React, Speech-to-Text (Whisper), LLM APIs, WebSocket, PostgreSQL, Docker	
• Designing an AI assistant for NASA JPL testbed operations that ingests live telemetry and operator conversations into structured engineering logs, anomaly summaries, and searchable records	
• Implementing Python-based backend services, LLM/NLP pipelines, and a web dashboard with database and API integration so engineers can query historical test data and correlate system events with natural-language notes	
MLB Pitcher Performance Dashboard	10/2025
Tech: Python, React, TypeScript, FastAPI, SQLite, Tailwind CSS	
• Built a full-stack web application for the Washington Nationals to summarize 2025 MLB pitching data for performance analysis	
• Designed a FastAPI backend with a SQLite database and a React/TypeScript + Tailwind frontend with custom charts to visualize pitch usage and quality metrics in a responsive dashboard	
Cloudflare AI Baseball Stats Agent (Live Site / GitHub)	09/2025
Tech: TypeScript, Cloudflare Workers, Wrangler, D1 (SQLite), Llama 3.3 Model Binding, Git	
• Built and deployed AI-driven baseball analytics agent on Cloudflare Workers, using Llama 3.3 to translate natural-language queries into SQL against a D1 database with 56,000+ MLB pitching records (2018-2024)	
• Engineered multi-stage LLM pipeline (SQL generation → Query execution → Response formatting) with structured prompt design, query safety mechanisms, and fallback logic for robust error handling	
Xcelerate: Excel Automation AI Copilot (GitHub)	04/2025
Tech: Python, JavaScript, HTML/CSS, Flask, Tailwind CSS, Pandas, Google Gemini API, Chrome Extension Development, Git	
• Built an Excel automation copilot that lets non-technical users perform complex spreadsheet transformations via natural-language commands, using a Flask REST API, Gemini integration, and a responsive JavaScript/Tailwind frontend	
• Implemented robust Excel workflow processing for .xlsx/.xls files with error handling and metadata-preserving exports, reducing manual spreadsheet manipulation time by ~67%	
Pinception: Chrome Extension for ChatGPT (Live Site / GitHub)	01/2025
Tech: JavaScript/TypeScript, Google Chrome Extension APIs, Chrome Storage API, CSS, Git	
• Created a Chrome extension for ChatGPT users to save, search, and reuse prompts with privacy-first local-only storage; launched on the Chrome Web Store with a 5/5 rating	

PROFESSIONAL EXPERIENCE

PAREXEL	12/2018 – 11/2024
Senior Statistical Programmer (<i>Focus: Backend & Data Infrastructure</i>)	
• Engineered automated data-processing frameworks to process large-scale clinical datasets, cutting execution time from 24h to 3h (~85% faster)	
• Developed an MD5-based code-duplication detection framework to identify redundant scripts across parallel data-processing pipelines, reducing manual verification effort by 38% and improving reproducibility across studies	
• Added robust error handling, logging, and monitoring to COVID-19 interim analysis pipelines in Unix/Linux and introduced Git-based code reviews, reducing debugging and rerun time by 43% and improving reliability	
• Led a 6-member team through release cycles and collaborated with QA/compliance to engineer audit-ready infrastructure, delivering backend data infrastructure that supported regulatory submissions for first FDA-approved nasopharyngeal carcinoma treatment in 30+ countries	

SKILLS

- Programming:** Python, Java, JavaScript, Typescript, C, C++, Go
- Frameworks & Libraries:** HTML, CSS, Tailwind CSS, React.js, Flask, RESTful APIs, API Design
- DevOps & Cloud:** AWS (EC2, S3, Lambda), Cloudflare Workers, CI/CD pipelines, Unix/Linux Environments
- Databases & Tools:** SQL, Pandas, Algorithms & Data Structures, GitHub, Jira, ETL Pipelines, Data Processing
- AI/ML:** Natural Language Processing, Prompt Engineering, LLM Integration, Cloudflare Workers AI (Llama 3.3), Google Gemini API