

# Yu Lo

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## EDUCATION

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<b>University of Washington – Seattle</b> , 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)	
<b>Northeastern University – Seattle</b> , 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

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<b>NASA JPL Capstone Project: AI Testbed Operations Assistant</b> ( <i>Role: Software Engineer</i> )	12/2025 – 06/2026
<b>Tech:</b> 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	
<b>MLB Pitcher Performance Dashboard</b>	10/2025
<b>Tech:</b> 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	
<b>Cloudflare AI Baseball Stats Agent</b> ( <a href="#">Live Site</a> / <a href="#">GitHub</a> )	09/2025
<b>Tech:</b> 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	
<b>Xcelerate: Excel Automation AI Copilot</b> ( <a href="#">GitHub</a> )	04/2025
<b>Tech:</b> 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%	
<b>Pinception: Chrome Extension for ChatGPT</b> ( <a href="#">Live Site</a> / <a href="#">GitHub</a> )	01/2025
<b>Tech:</b> 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

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<b>PAREXEL</b>	12/2018 – 11/2024
<i>Senior Statistical Programmer (Focus: Backend &amp; 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

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- 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