# Yu Lo

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## EDUCATION

**University of Washington** 09/2025 – 06/2027
MS, Electrical and Computer Engineering Seattle, WA
- Coursework: Data Structures and Algorithms for ECE Applications (Java), Machine Learning Operations (MLOps: reproducible ML pipelines, CI/CD, model monitoring, Docker/Kubernetes), Database Systems (SQL / NoSQL), Web Programming

**Northeastern University** 01/2025 – 08/2025
MS, Computer Science, GPA: 4.0 / 4.0 Seattle, WA
- Completed graduate coursework in Computer Science before transferring, including Intensive Foundations of Computer Science (Python) and Discrete Structure

## SKILLS

- **Languages & Tools:** Python, Java, JavaScript, TypeScript, SQL, Git, Unix/Linux
- **Frameworks & Libraries:** React.js, Node.js, Next.js, FastAPI, Flask, Tailwind CSS, Pandas, HuggingFace Transformers, PyTorch
- **AI & Infra:** LLM Integration, Prompt Engineering, MLOps (Docker, CI/CD, model monitoring), REST APIs
- **Software Development & Cloud Concepts:** Full-Stack Web Development, AWS (S3, EC2, IAM learning), Data Pipelines, OOP, Agile, Unit Testing, Logging & Monitoring, API Integration, Data-Driven Systems

## PROFESSIONAL EXPERIENCE

**PAREXEL** (Global clinical research organization with 24,000+ employees across 50+ countries) 12/2018 – 11/2024
*Senior Statistical Programmer – Full Time* Taipei, Taiwan
- Spearheaded backend automation for global clinical trials, delivering validated datasets across US, EU, and Asia regulatory agencies
- Built scalable ETL pipelines for clinical analytics, transforming large-scale raw trial data into ADaM/TLF outputs (regulatory submission datasets and visualized charts/reports) using Python, R, and SAS, increasing delivery efficiency by 49%
- Defined data specs and submitted FDA/EMA-compliant deliverables through cross-functional collaboration with sponsors, statisticians, and regulatory teams
- Designed modular logic for diverse data schemas, reducing duplication and simplifying long-term pipeline maintenance
- Led programming for Asia's first FDA-approved nasopharyngeal carcinoma treatment, enabling successful submission and approval
- Maintained audit-ready documentation and programming traceability to support compliance and reproducibility across trials

## SELECTIVE PROJECTS

**Xcelerate: Excel Copilot with AI-powered spreadsheet automation** *(Full Stack Developer)* 03/2025
**Tech:** Python, Flask (REST API), Tailwind CSS (UI), Google Gemini API (AI integration), OpenPyXL & Pandas, Git
- Built a full-stack AI copilot to automate spreadsheet tasks using natural language, reducing manual work for non-technical users
- Integrated Gemini API with OpenPyXL and Pandas to support automated data extraction, analysis, and summarization, enabling 67% faster task completion in user testing
- Developed a prompt parsing engine to convert natural language into actionable spreadsheet operations and deployed a lightweight UI to support user interaction and workflow efficiency

**ReviewGuard: Content Risk Analysis & Labeling Platform** (*Backend Developer)* 06/2025
**Tech:** Python, FastAPI, HuggingFace Transformers (sentiment analysis), SQLite (SQLAlchemy ORM), Docker, Pytest, Git
- Built and deployed a containerized backend API for analyzing user-generated content, performing sentiment classification and risk labeling (Safe, Warning, Block) using a lightweight NLP model and keyword-based rules
- Designed and implemented persistent storage and query endpoints with SQLite + SQLAlchemy, enabling filtering, pagination, and retrieval of historical analysis results
- Automated testing and containerized deployment (Pytest + Docker Compose), ensuring reliable service delivery and simplified local and cloud environment setup

**Pinception: ChatGPT Message & Prompt Management Chrome Extension** *(Software Engineer)* 07/2025
**Tech:** JavaScript (core logic), Chrome Extension APIs (storage & runtime), HTML/CSS (UI), Local Storage (data persistence), Git
- Built a Chrome extension for storing, searching, and managing ChatGPT conversation snippets and frequently used prompts, improving workflow efficiency and enabling quick reuse of critical content
- Implemented indexed local storage with caching and lightweight search algorithms, reducing query response time to <50 ms and improving data retrieval speed by 34%
- Published on the Chrome Web Store and iterated based on analytics feedback, validating usability and ensuring data integrity