Olivia Tseng

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SUMMARY

Software Engineer specializing in full-stack development, backend systems, and scalable cloud architectures. Proficient in **Python**, **Java**, and cloud computing (**AWS, Kubernetes, Docker**), CI/CD automation, and AI-driven optimization.

TECHNICAL SKILLS

- **Programming:** Python, Java, Objective-C, C#, JavaScript, SQL, MATLAB
- **Software & Web Development:** Agile, REST APIs, Object-Oriented Programming, SDLC, MySQL, React, Node.js, D3.js, Pytest
- **Cloud & DevOps:** Git, GitHub, AWS, Azure, CI/CD, Linux, Unix, Docker, Kubernetes, MLflow, Kubeflow, Unity
- **AI/ML:** TensorFlow, PyTorch, Keras, Scikit-learn, OpenCV, Deep Learning, TensorRT, MLOps, Model Training & Evaluation

PROFESSIONAL EXPERIENCE

Software Developer - AI Data Trainer | Outlier | Remote   OCT 2024 – Present
- Fine-tune **LLMs** through annotation, **code reviews**, and reinforcement learning from human feedback (RLHF).
- Completed **5+ Python projects** to evaluate and improve **generative AI** performance.

Machine Learning Intern | BC Cancer | Kelowna, BC, Canada   SEP 2023 – Present
- Built **data preprocessing pipelines** to process **500K+ medical images** on Unix, reducing preprocessing time by **30%**.
- Developed **automated model evaluation tools**, streamlining performance tracking and visualization for **10+ experiments**.

Java Teaching Assistant | UBC | Kelowna, BC, Canada   SEP 2024 – DEC 2024
- Led **Java programming labs** on Object-Oriented Programming (**OOP**), data structures, and algorithms for **30+ students**.
- Assisted in **debugging**, **grading**, and refining Java-based coding assignments.

System Development Intern | MIRDC Taiwan | Kaohsiung, Taiwan   JUL 2021 – DEC 2021
- Designed and deployed a **CSR data management platform** for 147 companies, improving workflow efficiency by **25%**.
- Integrated systems for ESG compliance, increasing data accuracy and reducing processing time.

Software Development Intern | Coretronic Co. | Hsinchu, Taiwan   JUL 2021 – AUG 2021
- Developed **automated testing scripts** using RPA, improving test coverage and reducing manual effort by **95%**.
- Optimized **bug-tracking workflow**, cutting issue resolution time from **180 to 15 minutes** through automation.

EDUCATION

Master's Degree in Computer Science | The University of British Columbia (UBC)   SEP 2023 – JUN 2025 (Expected)
- **GPA:** 3.8 | UBC Okanagan Graduate Research Scholarships

Bachelor's Degree in Information Management | National Chung Cheng University (CCU)   SEP 2019 – JUN 2023
- **GPA:** 3.87 | Fall 2022 Dean's List, 1st Place in CCU Global Elite Program

PROJECTS

TripSmart – AI-Powered Travel Itinerary Planner
- Developed a full-stack travel planning app using **React**, **Node.js**, **Google Gemini AI**, and **Supabase**.
- Engineered AI-driven itinerary generation, improving trip planning time by **70%**.
- Integrated **Google Maps API** for real-time location services and geocoding.

AI Ethnicity in Med Images
- Built **ML models** using EfficientNetB3 and DinoV2 for ethnicity classification in medical imaging.
- Deployed models on **AWS (EC2, S3)** for scalable operations.

CERTIFICATIONS & EXTRACURRICULARS

- **AWS Cloud Solutions Architect Specialization Certificate** – MAR 2025
- **NVIDIA AI Infrastructure and Operations Fundamentals** (Coursera) – FEB 2025
- **Top 12 Finalist** (out of 100 teams)**,** National Digital Humanities Big Data Competition – Designed app architecture and led proposal
- **Participant**, Microsoft Intern Program (2022 Coding Angels) – Led **~4** teammates to integrate **Face API** for facial recognition