Olivia Tseng

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SUMMARY

Full-stack Software Engineer skilled in **Python** and **Java**, with experience in AI-integrated apps, cloud deployment, and scalable backend systems. Built and deployed production-ready tools using React, Node.js, and Google Gemini API. Willing to relocate.

PROFESSIONAL EXPERIENCE

Software Developer - AI Data Trainer | Outlier | Remote   OCT 2024 – Present
- Conducted prompt evaluation and LLM fine-tuning through RLHF and supervised review.
- Completed **5+** generative AI evaluation workflows using Python and internal annotation tools.

Machine Learning Intern | BC Cancer | Kelowna, BC, Canada   SEP 2023 – Present
- Built modular Python scripts for large-scale image preprocessing (**500K+ files**) on Linux, reducing runtime by **~30%**.
- Developed deep learning models and deployed results on **AWS**, supporting experiment result tracking via web interface.

Java Teaching Assistant | UBC | Kelowna, BC, Canada   SEP 2024 – DEC 2024
- Led weekly labs and supported **30+** students in Object-Oriented Programming (OOP), data structures, and algorithms.

System Development Intern | MIRDC Taiwan | Kaohsiung, Taiwan   JUL 2021 – DEC 2021
- Designed user flows and system requirements for a CSR platform used by **100+ companies** in ESG reporting.
- Mapped data fields and user actions into structured logic for seamless back-office workflow integration.

Software Development Intern | Coretronic Co. | Hsinchu, Taiwan   JUL 2021 – AUG 2021
- Created Robotic Process Automation (RPA) workflows to automate software QA tasks, reducing manual testing effort by **95%**.
- Streamlined issue-tracking process by integrating automation into bug reporting, cutting triage time from **180 to 15 mins**.

EDUCATION

Master's Degree in Computer Science | The University of British Columbia (UBC)   SEP 2023 – MAY 2025
- **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

Smart Travel Genie – GenAI-Powered Travel Planner
- Developed during **Google x Kaggle GenAI Intensive (2025)**, using **Google Gemini API** for itinerary generation.
- Built a complementary Web App version independently to enhance UI/UX and deployment flexibility.
    - AI App: **Streamlit + Python** with dynamic UI, session state, and structured LLM response handling.
    - Web App: **React + Node.js + Supabase** with drag-and-drop itinerary editing and Google Maps API integration.
- Designed modular backend for prompt construction, validation, and secure API key handling.

AI Ethnicity in Med Images
- Trained **ML models** using EfficientNetB3 and DinoV2 for ethnicity classification in medical imaging.
- Deployed experiments on **AWS (EC2, S3)** with automated metric logging and visualization.

TECHNICAL SKILLS

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

CERTIFICATIONS & EXTRACURRICULARS

- **AWS Cloud Solutions Architect Specialization Certificate** (Coursera) – 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