Olivia Tseng

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SUMMARY

Software Engineer specializing in Artificial Intelligence (AI), full-stack development, and system optimization. Proficient in **Python**, **Java**, and cloud platforms such as **AWS**, with experience in ML models and scalable systems. Authorized to work in Canada.

TECHNICAL SKILLS

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

PROFESSIONAL EXPERIENCE

Software Developer - AI Data Trainer | Outlier | Remote   OCT 2024 – Present
- **Tested** and refined AI-generated Python code, contributing to LLM fine-tuning through annotation, **code reviews**, and RLHF.
- Created coding challenges and completed **5+ Python projects** to evaluate and improve **generative AI** performance.

Machine Learning Intern | BC Cancer | Kelowna, BC, Canada   SEP 2023 – Present
- Analyzed AI bias in **2.5M+** medical images, improving model fairness and diagnostic accuracy in a Unix-based environment.
- Developed **3+ deep learning models** to identify ethnic features using Grad-CAM visualization.

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
- Automated **QA testing** using RPA (Robotic Process Automation) tools, reducing manual processing times by **95%**.
- Streamlined bug-handling, cutting turnaround from **180 to 15 minutes**, and improving defect tracking with test automation.

EDUCATION

Master's Degree in Computer Science | The University of British Columbia (UBC)   SEP 2023 – JUN 2025 (Expected)
- **GPA:** 3.75 | UBC Okanagan Graduate Research Scholarships
- **Key Modules:** Advanced Algorithms, Applied Machine Learning, Computer Vision, Computer Graphics, HCI, Unity

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
- **Key Modules:** Data Structures, SQL, System Analysis & Design, Computer Networks, Web App Development

PROJECTS

- **AI Ethnicity in Medical Images** – Built models (EfficientNet, DinoV2, ResNet) to analyze racial features in 2.5M+ images.
- **Home Monitoring Security System** – Developed a real-time detection system (TensorFlow, OpenCV) with 92% accuracy.
- **Big Data Visualization for Tourism** – Created a website (JavaScript, D3.js) to visualize travel data from web-crawled sources.

EXTRACURRICULARS & CERTIFICATIONS

- **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
- **Activity Director**, CCU Career Fair 2021 – Organized **5+** events and led a **9**-member team
- **AWS Cloud Solutions Architect Specialization Certificate** – MAR 2025
- **NVIDIA AI Infrastructure and Operations Fundamentals** (Coursera) – FEB 2025
- **Google Project Management Professional Certificate** – FEB 2025