

# Olivia Tseng

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## SUMMARY

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

## TECHNICAL SKILLS

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- **Programming:** Python, Java, C, C#, JavaScript, SQL, MATLAB
- **Software & Web Development:** Agile, REST APIs, Object-Oriented Programming, SDLC, MySQL, React, Node.js, D3.js
- **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

## EDUCATION

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**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

## PROFESSIONAL EXPERIENCE

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**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.

**AI Data Trainer** | Outlier | Remote OCT 2024 – JAN 2025

- Enhanced AI-generated code quality by **testing models** and refining outputs, boosting accuracy by **15%**.
- Completed **5+ Python-based projects** to evaluate and improve coding tasks for generative AI systems.

**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%**.
- Simplified bug-handling workflows, cutting turnaround times from **180 to 15 minutes**.

## PROJECTS

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- **AI Ethnicity in Medical Images** – Developed deep learning models (**EfficientNet, DinoV2, ResNet**) to analyze racial features in **2.5M+ breast and lung images**, ensuring fairness and model interpretability.
- **Home Monitoring Security System** – Built a **real-time detection system** (TensorFlow, OpenCV), achieving a **92% accuracy**, with automated instant alerts for security breaches.
- **Big Data Visualization for Tourism** – Applied **web crawling (Python)** and established the website to present **data visualization (JavaScript, D3.js)**, investigating **15+ factors** affecting travel and living quality.

## EXTRACURRICULARS

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- **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