Olivia Tseng

BC, Canada | +12363383149 | yutingtseng0203@gmail.com | **LinkedIn**

SUMMARY

Master's student in Computer Science with expertise in **software development** and **AI**. Skilled in **Python**, **Java**, several frameworks, with experience improving workflows and building scalable systems. **Authorized to work in Canada with PR in progress.**

EDUCATION

Master's Degree in Computer Science | The University of British Columbia (UBC)   SEP 2023 – JUN 2025
- **GPA:** 3.75
- **Scholarship:** 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
- **Awards:** Fall 2022 Dean's List, 1st Place in CCU Global Elite Program
- **Key Modules:** Data Structures, SQL Database, System Analysis & Design, Computer Networks, Web App Development

PROFESSIONAL EXPERIENCE

Machine Learning Intern | BC Cancer | Kelowna, BC, Canada   SEP 2023 – Present
- Conduct AI bias analysis on **2.5M+** medical images to improve diagnostic accuracy on Unix.
- Develop **3+** deep learning models for ethnic feature recognition with Grad-CAM transparency.

AI Data Trainer | Outlier | Remote   OCT 2024 – Present
- Improve AI-generated code quality by providing feedback and testing models, increasing 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
- Lead Java programming labs for **30+** students, helping them develop problem-solving skills.
- Mentor students on research-based projects to enhance their academic development.

System Development Intern | MIRDC Taiwan | Kaohsiung, Taiwan   JUL 2021 – DEC 2021
- Developed a platform to manage CSR data 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 testing processes using RPA tools, reducing manual processing times by **95%**.
- Simplified bug-handling workflows, cutting turnaround times from **180 to 15** minutes.

PROJECTS

- **AI Ethnicity in Medical Images:** Developed AI models with PyTorch, ResNet50, DinoV2, and Grad-CAM to identify racial features in 2.5M+ breast and lung images, ensuring fairness and interpretability.

- **Home Monitoring Security System:** Built a real-time detection system with TensorFlow and OpenCV, achieving a **92%** accuracy rate and adding instant alert notifications.

- **Big Data Visualization for Tourism:** Applied web crawling in Python and established the website to present data visualization in D3.js, investigating **15** factors affecting travel and living quality.

EXTRACURRICULARS

- **Top 12 Finalist/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

SKILLS & LANGUAGES

Programming languages: Python, Java, C, C#, SQL, JavaScript, HTML, CSS, MATLAB
Frameworks & Tools: Linux, Unix, AWS, Azure, Git, Docker, Unity, TensorFlow, PyTorch, Keras, OpenCV, RPA
Languages: Mandarin (Native), English (Highly proficient)