Ming Chun Wei

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EDUCATION

The University of British Columbia Vancouver, BC
Bachelor of Science in Computer Science *Sept 2019 – May 2024*
- Dean's honour list every year, 88.6% average

EXPERIENCE

Part Time Software Developer Sept 2021 – Present
Hypatia Systems *New Westminster, BC*
- Drove the launch of a website to improve mathematical education for teachers and students, implementing a system for step-by-step math verification and automatic summary reports
- Built and conducted over 40 database wide migration scripts while preserving current queries to address rapidly changing business requirements in a startup setting
- Streamlined the question creation process by implementing question management tools, allowing teachers to assign questions to authors and track their progress from beginning to end
- Designed an invitation system that uses the Oauth 2.0 protocol to enable authorized third parties to create questions and use them in online textbooks or private websites

Undergraduate Teaching Assistant Sept 2022 – June 2023
The University of British Columbia *Vancouver, BC*
- Supported instruction in software engineering and applied machine learning courses by grading homework and responding to questions from students
- Conducted weekly labs and office hours, led retrospective meetings, and provided feedback on student projects

Programmer Analyst Intern Jan 2022 – Sept 2022
The University of British Columbia *Vancouver, BC*
- Led the investigation and data recovery of a 4GB database data loss that occurred due to a loophole in legacy code by tracing HTTP requests and examining server logs
- Refactored legacy code that caused inconsistent results in user dropdowns due to race conditions by simplifying request logic and migrating legacy code to React.js
- Built a shell script to automate the initialization of virtual machines along with the configuration of a Tomcat server and database, eliminating the need for manual setup for development environments

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PROJECTS

Twitter Play Store Reviews Analysis | *Python, pandas, BERTopic, gensim*
- Discovered traces of company scandals, company events, and world-wide controversies through analyzing Twitter reviews on google play store with LDA and BERTopic

Image Denoising | *Python, PyTorch, OpenCV, NumPy*
- Trained and compared bilateral denoising, AutoEncoder, U-net, and DnCNN architecture on the task of denoising random Gaussian noise in images

Face Mask Classification | *Python, pandas, OpenCV, scikit-learn, NumPy*
- Trained and compared SIFT BoW based logistic regression and multi-layer perceptron (MLP) machine learning models with pixel-based MLP and convoluational neural network structures for the task of face mask classification

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SKILLS

Languages: JavaScript, Python, Java, TypeScript, SQL, HTML, CSS
Technologies: Git, SVN, Node.js, Express, React
Libraries: pandas, NumPy, scikit-learn, PyTorch, OpenCV