Chan, Aric Edbert

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EDUCATION

University of British Columbia — Vancouver, BC
Bachelor of Computer Science — GPA: 3.95/4.33 or 85% — *Sep. 2024 – Dec. 2026*

Chinese University of Hong Kong — Hong Kong
Master of Philosophy in Economics — *Sep. 2015 – Aug. 2017*
Bachelor of Social Sciences in Economics, Minor in Mathematics — *Sep. 2009 – Aug. 2012*

PROJECTS

Personal Site | *Framer Motion, Chakra UI, React Bits* — Jun. 2025
- Revamped old HTML/CSS personal site into interactive and responsive React website
- Developed a customized filter component, enabling users to dynamically sort project cards based on selected tech stack
- Engineered custom React routing and Framer Motion animations to enhance user experience

OOTDscribe | BCS Hacks 2025 | *Gemini API, Express.js, MongoDB, Tailwind, React Bits, ShadCN* — Mar. 2025
- Developed a AI-generated journal platform using user-input mood, stories, and images
- Integrated endpoints for front-end CRUD operations, enabling display, creation, and deletion of journal cards
- Created a responsive, user-friendly UI with landing page, light/dark mode, search functionality, and toast notifications
- Stored Base64-encoded images in MongoDB and reduced journal cards loading time by 30% using localStorage caching

Credit Card Default Detection | *Python, Scikit-learn* — Mar. 2025
- Built machine learning pipelines to predict credit card default risk on a 30k entries imbalanced dataset, achieving a recall score of 75.0% with logistic regression
- Optimized models (Logistic Regression, Random Forest & CatBoost) using pipelines, cross-validation and recursive feature elimination with grid search for hyperparameter tuning
- Improved model interpretability with SHAP analysis, identifying recent repayment status as top contributor to predictions

24-7 MedConnect | HackCamp 2024 | *Gemini API, React, Express.js, MongoDB, Amazon EC2* — Nov. 2024
- Offered suitable doctors from the database based on Gemini AI-generated feedback derived from user-input symptoms
- Processed user-input symptoms using Gemini AI to identify suitable medical specialties, then turned feedback into JSON format for database querying
- Used Axios API for data flow between frontend and backend, including creating doctor profiles on database and retrieving query results to web application based on symptoms input

Coffee Tasting Platform | *Java, JUnit* — Jan. – Apr. 2024
- Developed a CRUD platform with a multi-tab GUI, enabling users to log bean purchase details, record brew note reviews, and toggle between functionalities seamlessly
- Implemented JSON-based data persistence to retain and load user data across sessions

EXPERIENCE

Deputy Returning Officer *Election Canada* — Apr. 2025

Web Development Intern *Sing Sharp Limited* | *React, Express.js, Next.js, Jira* — May. – Jun. 2024
- Developed 3 pages and data tables to display handled promise objects returning from server
- Created 10 APIs based on server requirements and validated return results
- Utilized Jira to report and communicate daily task with seniors and pushed reviewed codes to branches
- Constructed and refactored Material UI components to improve versatility and support future development needs

Economist *Nanyang Commercial Bank* — Jan. 2021 – Jul. 2023
- Conducted policy studies (e.g. LIBOR transition, Inflation risk on bank & Green finance) to drive bank business strategies and presented to management committee
- Completed two top-down researches for the corporate banking division to explore new business opportunities
- Delivered weekly market briefs and quarterly assets allocation reports to facilitate investment product team & treasury division's decision making

Research Analyst *Sun Hung Kai Properties* — Dec. 2018 – Jan. 2021

TECHNICAL SKILLS

Languages: C, C++, Python, Java, JavaScript, TypeScript, HTML/CSS, PHP, Assembly
Developer Tools: VS Code, IntelliJ, Git, MongoDB, MySQL, phpMyAdmin, Amazon AWS
Statistics: R, EViews, STATA
Communication: English, Cantonese, Mandarin