Benny Chinvanich

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Education

University of British Columbia Vancouver, BC

Combined Major in Computer Science and Business *Expected Completion: May 2026*

- Selected Honours and Awards: International Entrance Scholarship; IMES Award; OIS Award ($180,000 total)
- Relevant Courses: Software Engineering, Machine Learning, Financial Valuation and Quantitative Analysis

Technical Skills

Languages: Python, Java, TypeScript, C++, Swift, JavaScript, C#, SQL, R, HTML/CSS
Frameworks: React, Node.js, Express, Flask, Tailwind, TensorFlow, Scikit, CUDA
Cloud & Databases: AWS (ECS, EC2, Lambda, S3, DynamoDB), Azure, Firebase, Supabase, PostgreSQL, MongoDB
Tools: Git, Linux, Visual Studio Code, IntelliJ IDEA, Xcode, Postman, Unity, Docker, Jenkins

Work Experience

Amazon May. 2025 – Aug. 2025

Software Development Engineer Intern - Prime Payments Team *Vancouver, BC*

- Engineered an orchestration system with AWS ECS Fargate to manage millions of Prime subscriptions, replacing legacy manual scripts with automated, fault-tolerant workflows and improving system reliability.
- Implemented multi-tier rate limiting (workflow, container, and service level) in a distributed subscription pipeline sustaining 50+ TPS, enabling stable processing of millions of customer records without service degradation.
- Developed microservices with automated CloudAuth integration to enforce authentication and authorization at scale, reducing manual batch processing runs by 90% while ensuring regulatory compliance.

Amazon Jun. 2024 – Sep. 2024

Software Development Engineer Intern - Middle Mile Team *Vancouver, BC*

- Developed a platform for Long Term Resource Planning (LTRP) using AWS EC2, Lambda, and S3, reducing manual data handling by 90% and enhancing efficiency for millions of data points weekly.
- Integrated essential data publishing and validation functionalities, supporting resource planning 12 months ahead, for handling over 10 million packages daily between Amazon warehouses across North America and Europe.

Canadian Imperial Bank of Commerce (CIBC) Sep. 2023 – Apr. 2024

Performance Developer Intern - Mobile Performance Team *Toronto, ON*

- Implemented Python automation scripts and executed QA/load testing with LoadRunner and Appium for CIBC's iOS and Android apps, reducing manual testing effort by 70% and improving reliability for millions of users.

BC Public Service May 2023 – Aug. 2023

Full-Stack Developer Intern - Registries Team *Vancouver, BC*

- Built scalable web applications for the Registries Department using JavaScript, Python, and PostgreSQL, applying test-driven development with Jest to improve efficiency by 30% and accelerate delivery.

Volunteer Experience

UBC BizTech Jun. 2022 – Present

Senior Developer / Hackathon Director *Vancouver, BC*

- Maintained a serverless AWS member dashboard (2,000+ users, $20K+ ticket sales) and shipped new products: an NFC membership card enabling digital business cards and event check-in, a virtual stock market with custom pricing logic, and a Swift iPad kiosk app to scan attendee data and automate event workflows.

Projects

Quantitative Portfolio Simulation Dashboard | *Python (Pandas, NumPy, Matplotlib), Next.js* May 2024

- Built a Monte Carlo simulation platform modeling 50,000+ investment scenarios, leveraging Python for data processing and Next.js for interactive, client-side analytics.
- Delivered real-time visualization and dynamic parameter tuning, improving risk-return assessment speed by 30% and enabling data-driven portfolio optimization.

Presently | *Python, OpenCV, TensorFlow, MediaPipe* Jan. 2023

- Developed an AI-powered web app (TensorFlow, OpenCV, MediaPipe) for real-time emotion detection, speech analysis, and eye-contact training; won $500 at nwHacks 2023 and achieved 95% sentiment classification accuracy.