

Anthony Chan

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Summary

Computer Science student with a strong foundation in software development, data engineering, and machine learning. Experienced in building full-stack applications, optimizing system performance, and developing scalable solutions using modern technologies. Passionate about leveraging data-driven insights to solve real-world problems. Open to software engineering, data engineering, and data science roles. Willing to relocate for the right opportunity.

Education

University of Calgary | BSc in Computer Science | Co-op Program

Sept 2022 - Apr 2027

- **Relevant Coursework:** Intro to CS(Python), Intro to CS II(Java), Software Engineering, Data Structures and Algorithms, Design and Analysis of Algorithms, Computer Architecture, Operating Systems, Computer Networks, Application of Databases, Linear Algebra, Calculus I, Stats I, Stats II

Experience

Code the Change YYC | Software Developer | Calgary, AB

Oct 2024 - Present

- Developed a hackathon management tool using **TypeScript**, **Next.js**, and **AWS Amplify** to manage over 300+ users.
- Spearheaded the development of responsive UI components with **Tailwind CSS**, streamlining development reducing development time by 20%.
- Implemented caching and dynamic routing techniques to enhance page load performance.

Stealth Startup | Co-Founder/Software Engineer | Calgary, AB

Feb 2023 - Nov 2023

- Directed a team of 5 developers to design and develop a social media application using **React Native** to improve device support.
- Secured \$10,000 in funding and mentorship through the Microsoft for Startups Program, driving strategic growth.
- Led requirements gathering sessions with stakeholders to define project requirements and establish a clear development roadmap.

Personal Projects

Personal Trader (Work in Progress)

- Designing and developing a machine learning-powered financial forecasting tool using **Python**, **PyTorch**, and **scikit-learn**, to predict short-term stock trends by analyzing historical pricing data and market indicators.
- Built a web dashboard using **Next.js** to provide users with dynamic, interactive visualizations of financial trends, including real-time stock performance and risk assessment metrics.
- Implemented a robust real-time data pipeline using **FastAPI** and **PostgreSQL**, enabling continuous ingestion of stock market data.
- Deployed the application on **AWS**, utilizing **S3** for storage and **Lambda** functions for efficient, cost-effective computation, ensuring scalability and **high availability** for real-time analysis.

Peerfect

- Developed a peer-to-peer skill-sharing platform using **Next.js**, **Supabase**, and **Tailwind CSS** facilitating over 100+ successful skill exchanges within the first month.
- Implemented a structured tagging and matching system, increasing the efficiency of skill-based connections.
- Designed and optimized authentication with **Supabase**, for a seamless login experience.
- Crafted an intuitive UI with Shadcn/UI to improve accessibility and user engagement.

Gambling friends

- Engineered a **Next.js** web application to track and visualize poker statistics in real-time, featuring dynamic charts and interactive leaderboards
- Implemented secure authentication and authorization using **AWS Amplify Auth**, leveraging **Cognito** for user management and multi-factor authentication, ensuring robust data protection.
- Optimized database queries and API endpoints for improved real-time data syncing.

Skills

Languages: Python, Java, C/C++, HTML/CSS, Javascript, Typescript, SQL/NoSQL

Technologies/Frameworks: React.js, Next.js, Node.js, React Native, Tailwind CSS, AWS Amplify Gen 2, Prisma, PyTorch, scikit-learn

Tools: Github, Git, Figma, Supabase, Firebase, Docker, Kubernetes