Anthony Chan

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Education

University of Calgary | BSc in Computer Science | Co-op Program   Sept 2022 - Apr 2027

- **Relevant Coursework:** Software Engineering, Data Structures and Algorithms, Design and Analysis of Algorithms, Computer Architecture, Operating Systems, Computer Networks, Application of Databases

Experience

Cisco | Software Engineering Intern | Calgary, AB   May 2025 - Present

- Built a high-impact nightly CSV scheduler in **Golang** that processes **50,000+** daily query and script records, generates comprehensive usage reports, and uploads to configurable **S3** bucket during designated local time window.
- Built an **AI** powered PR-automation workflow that auto-generates summaries, reviewers, and surfaced updates automatically while sending to a Webex rooms, increasing PR visibility and saving **25+ hours/month**.
- Developed and optimized **REST API** endpoints in **Golang** for tooling services, improving reliability and reducing integration errors across tooling services, implemented comprehensive **unit tests** and **integration test suites.**
- Integrated GitHub Actions CI/CD pipelines with automated unit and integration testing, reducing deployment failures by **40%** and accelerating release cycles across **3+** microservices.

Code the Change YYC | Software Developer & Team Lead| Calgary, AB   Oct 2024 - Present

- Engineered a full-stack **hackathon management platform** using **TypeScript**, **Next.js**, and **AWS Amplify**, supporting user registration, authentication, and project tracking for **1000+ users**.
- Led and mentored a team of **6+** developers through 2-week Agile sprints, conducting code reviews and sprint planning to deliver features on time while ensuring code quality and maintainability.
- Designed and implemented **role-based access control (RBAC)** and **admin dashboards**, enabling organizers to manage **500+ mentors and participants** with fine-grained permissions.
- Implemented event scheduling and announcement features with push notifications, keeping **1000+** participants informed of workshops, deadlines, and ceremony updates.

Personal Projects

Contextualize – Cal Hacks 2025

- Built a GitHub repo analyzer generating **1,500+** vector embeddings using **ChromaDB** for semantic search and architecture understanding.
- Designed interactive 3D graph visualizations using **React, Three.js and Tailwind CSS** to map relationships, improving readability and understanding of complex repo structures.
- Engineered backend pipelines for chunking, dependency mapping, and dynamic API routing enabling sub-second semantic queries.

Curio

- Developed a **Pinterest-style educational content-sharing platform** using **Next.js** with infinite scroll and server-side rendering (SSR) for seamless browsing and improved SEO performance.
- Designed UI/UX in Figma, achieving a 95% lighthouse accessibility score and consistent mobile-first performance across devices.
- Engineered a **real-time content feed** backed by dynamic API routes, supporting **5,000+ shared posts** during beta testing with smooth scaling for additional content growth.

Skills

Languages: Python, Java, C/C++, HTML/CSS, JavaScript, Typescript, Go/Golang, SQL/NoSQL, Bash/Shell, Swift
Technologies/Frameworks: React.js, Next.js, Node.js, Three.js/WebGL, React Native, Tailwind CSS, AWS (Amplify Gen 2, S3, Lambda, IAM, RDS, DynamoDB, EC2, VPC, CloudWatch), Prisma, Flask, PostgreSQL, Vector Databases (ChromaDB), REST API Design, Figma, Supabase, Firebase, Docker, Kubernetes
Tools: Git, GitHub, GitHub Actions (CI/CD), Integration Testing, Unit Testing, Playwright (End-to-end testing), Linux/Unix