

Steven Bai

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TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C++, Java, Go, SQL, HTML, CSS

Frameworks/Libraries: React/React Native, Next.js, Node.js, Express, Ruby on Rails, Angular, Tailwind CSS

Cloud/Databases: AWS, Firebase, PostgreSQL, Snowflake, Redshift, Kafka, Airflow, Docker, Kubernetes, Datadog

EDUCATION

University of Waterloo

Sept. 2022 – April 2027

Honours Bachelor of Computer Science

Waterloo, ON

- Courses: Data Structures and Algorithms, Sequential Programming, Computer Networks, Human-Computer Interaction, Object-Oriented Programming, Mobile Application Development, Operating Systems, Combinatorics, Graph Theory, Statistics, Calculus, Linear Algebra

EXPERIENCE

Rundoo

January 2026 – April 2026

Software Engineer Intern

San Francisco Bay Area, CA

- Building and maintaining **Go-based** backend services and a **Next.js** frontend to support customer data migrations from legacy POS systems into a **PostgreSQL**-backed platform.

Wealthsimple

May 2025 – August 2025

Software Engineer Intern

Toronto, ON

- Built a business intelligence platform for Wealthsimple Financial Advisors using **Airflow** and **Redshift** + **Snowflake**, driving **80% advisor engagement**.
- Engineered a scalable **fee-calculation service** in **Rails** with **Kafka**, supporting **600+ clients managing \$300M+ AUM**.

Constant Contact

January 2025 – April 2025

Software Developer Intern

Kitchener, ON

- Built a scalable AI-powered contact import system on **AWS EKS** + **Bedrock**, processing **80M+ contacts/month** and increasing **first-pass import success rate from 60% to 90%**.
- Modernized **Lambda** deployments using **Docker** + **CloudFormation**, improving reliability and release consistency.

Datacurve (YC W24)

March 2024 – August 2024

Software Engineer (Contract)

San Francisco, CA (remote)

- Curated coding datasets for **Cohere's Coral model**, boosting accuracy via prompt/output refinement.
- Debugged complex **C/C++** and **Python** programs to identify model failures, enabling high-quality data ingestion for fine-tuning.

Uncaught Exception Inc.

May 2024 – August 2024

Software Engineer Intern

Vancouver, BC

- Scaled the **AlgoMonster** interview preparation platform to **5,000+ daily active users** using **Next.js**, **Firebase**, and **AWS ECS**.
- Designed and ran analytics-driven **A/B experiments** with **Amplitude** and **Hotjar**, improving onboarding conversion and reducing bounce rate by **30%**.

Rich Media

May 2023 – August 2023

Full Stack Developer Intern

Toronto, ON

- Led Agile development of **Scotiabank & TD** mortgage calculator with **Angular**, used by **thousands daily**.
- Built **TypeScript** + **Playwright** asset extraction tool, cutting prototyping time by **1 hour per iteration**.

PROJECTS

Chess Machine

November 2023 – December 2023

C++, MVC, Alpha-Beta Pruning

- Developed a complete chess engine using **OOP**, **MVC**, and **Observer** patterns, supporting AI mode.
- Implemented **Minimax** algorithm optimized with **Alpha-Beta pruning**, achieving **5-ply search depth in under 2 seconds** and ensuring safe memory handling via **unique pointers**.