Steven Bai

(+1) 416-768-2818 | s2bai@uwaterloo.ca | stevenbai.ca 🗹 | LinkedIn **in** | GitHub 🖸

EDUCATION

University of Waterloo

Waterloo, ON

Honours Bachelor of Computer Science - 3.84 GPA

Sept. 2022 - May 2026

• Courses: Data Structures and Algorithms, Sequential Programming, Object-Oriented Programming, Operating Systems, Combinatorics, Graph Theory, Statistics, Calculus, Linear Algebra

TECHNICAL SKILLS

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

Technologies: React/React Native, Next, Pandas, Excel, Tailwind CSS, Node, Express, Angular, MongoDB,

TortoiseSVN, Jenkins, Heroku

EXPERIENCE

Software Engineer

May 2024 – Aug 2024

Vancouver, BC (remote)

AlgoMonster 🗹 • Engineered automated data visualization and content generation tools using NextJS, Python, matplotlib, pandas, Excel and OpenAI API to enhance user-tailored coding interview guides.

 Trained a GPT-4-powered interviewing bot, leveraging advanced AI to simulate real-world coding interviews, significantly boosting user interaction and learning efficiency.

Data Engineer

March 2024 – Present

Datacurve.ai (YC W24)

San Francisco, CA (remote)

• Developed and annotated hundreds of high-quality coding questions in C++, Python, and React. Created comprehensive datasets used by Cohere to enhance the training of their Coral AI models, significantly improving model accuracy and performance.

Full Stack Developer

May 2023 – August 2023

Rich Media

Toronto, ON

- Spearheaded Lean-Agile development of white-label software for Scotiabank and TD Bank using HTML, SASS and Angular, enhancing UI/UX of banking and insurance tools used daily by thousands of Canadians.
- Improved internal project turnaround efficiencies by 25% by using TypeScript and Playwright for automated web scraping, streamlining customization of client website frames and assets.

Frontend Developer

March 2021 – August 2021

iContribute **☑**

Ottawa, ON (remote)

- Developed 15+ user-facing pages and components on the client web portal using React, MUI and Figma, giving non-profit organizations and volunteers visibility into remote and in-person opportunities.
- Enhanced high school volunteering during the pandemic, used by 58 partnered organizations to connect with 1000+ active users on the mobile app, built on React Native and Firebase.

Projects

chess $\Omega \mid C++$

Nov 2023 - Dec 2023

- Developed a fully-functioning chess game in C++, applying **Object-Oriented-Programming** principles, Model-View-Control and Observer patterns for 2-player and computer modes.
- Implemented chess AI with a Minimax algorithm optimized with alpha-beta pruning, reducing computation time by 500% and achieving a 75%+ win rate against 1200 elo players.

Awards & Achievement

PureScholars Award in Mathematics

Sept 2022

University of Waterloo

- Awarded \$5000 for excellence in community involvement, provincial-level athletics and 97% admission average.
- Accumulated solutions to 1000+ competitive programming problems on GitHub , scored in the top 5% of the Canadian Computing Competition and ranked top 2% on LeetCode .