

Brian Gao

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EDUCATION

University of Waterloo

Sep 2021 – May 2026

Systems Design Engineering (Bachelor of Applied Science)

Waterloo, ON

- Cumulative GPA: 89% (3.95/4.0) | Courses: Data Structures and Algorithms (C++), Digital Systems (C)

EXPERIENCE

Arctic Wolf Networks

Sep 2022 – Present

Software Engineering Intern

Eden Prairie, MN

- Launched interfaces in **Django** with **Kubernetes** for an intelligence platform used by **1000+ stakeholders**
- Integrated **CI/CD** with **GitHub Actions**, **Bazel**, and **Harness**, automating **AWS deployments (Helm, EKS)**
- Architected a field-mapping framework with **C4 system diagrams** and **Python**, reducing pipeline bottlenecks
- **Won a company hackathon (80+ participants)** with a team by designing **Go APIs** that provide IP-blockers

Waterloop

May 2022 – Present

Full Stack Developer

Waterloo, ON

- Developed **3+ REST APIs** with **PERN** for a website facing potential sponsors and **5000+ monthly traffic**
- Designed the database schema for the team merch store and developed **15+ unit/integrations tests** thereafter using **systems design methodologies** and **Mocha/Chai**, deploying a highly requested feature to production
- Built a secure and industry-standard authentication flow by integrating OAuth 2.0 with **Google Identity**

JANA Corporation

Jan 2022 – Apr 2022

Software Engineering Intern

Aurora, ON

- Pioneered 4+ project deliverables with **React/Redux** for a risk management tool generating **\$20 million/year**
- Implemented downloadable risk reports using **TypeScript**, providing customers with executive-friendly pdfs
- Published **5+ npm packages** with Storybook and Lerna, enabling code reusability across the software team
- Spearheaded a company presentation on web security to 50+ employees, increasing awareness of best practices

Midnight Sun Solar Car Team

Sep 2021 – Jan 2022

Firmware Developer

Waterloo, ON

- Programmed microcontrollers in **C** to control the power distribution and state of the MSXIV, a solar car

PROJECTS

ScanEats – WinHacks (winner) | *Python, JavaScript, Flask, React, TensorFlow, Postman*

- Built a **hackathon-winning (200+ participants)** lifestyle app with **Flask** that analyzes food quality

Youtistics | *TypeScript, React, Google Cloud Platform, YouTube Data API, Google Identity, Postman*

- Engineered a statistics app using **GCP** and **YouTube Data API** that provides insight into user viewing-habits

G-aim – StormHacks | *JavaScript, React, NodeJS, Express, MongoDB, Postman*

- Created an aim-training game with **NodeJS/Express** and **MongoDB** that educates users about climate change

SKILLS

- **Languages:** TypeScript/JavaScript, Python, SQL, Go, C/C++, HTML/CSS
- **Frameworks:** Amazon Web Services, NodeJS, Express, Docker, Kubernetes, Flask, Google Cloud Platform
- **Libraries/Tools:** Git, React, PostgreSQL, MongoDB, Bazel, Harness, Jira, Postman, Unix/Linux, REST APIs