Brian Gao

bhgao@uwaterloo.ca | +1 (416) 839-8839 | briangao.me | linkedin.com/in/bhgao | github.com/BENJIGAO

SKILLS

Languages: TypeScript/JavaScript, Kotlin, Python, SQL, Golang, HTML/CSS
Frameworks: Amazon Web Services, NodeJS, Express, Docker, Kubernetes, Google Cloud Platform, Mocha/Chai
Libraries/Tools: Git, React, Redux, PostgreSQL, MySQL, Unix/Linux, REST APIs

EXPERIENCE

Faire – *Backend Engineer Intern*   **May 2023 – Aug 2023**
- Drove a project that **increased revenue by $5.3 million** by working with the legal team to remove incentives from web and mobile surfaces, which prevented S&M revenue from being reclassified as contra-revenue
- Scoped requirements for 3 product areas for a North American commission-restructuring project, which expects to **increase company contribution profit by 8% by 2025**
- Created a Mode report that tracks email metrics with **SQL**, resulting in **4+ data-driven decisions** on experiments
- Led development of a promotion email sent to **20000+ brands** for a mobile app, **increasing downloads by 5%**
- Drove **2 OKRs** to completion by removing 10+ old experiments, 5 APIs, and 15+ tests in Kotlin

Waterloop – *Project Lead*   **May 2022 – Apr 2023**
- Led a team of 7 developers for the content management system by hosting work sessions and standups
- Developed **3+ REST APIs** with the **PERN stack** for a website that generates **5000+ monthly views**
- Designed the database schema and 15+ unit/integration tests for the team merch store using **database design methodology** and **Mocha/Chai**, allowing supporters to buy merch and assist the team financially
- Built a secure and industry-standard authentication flow by integrating OAuth 2.0 with Google Identity

Arctic Wolf Networks – *Software Engineer Intern*   **Sep 2022 – Dec 2022**
- Deployed a user interface in Django with **Kubernetes** for a security database used by **1000+ stakeholders**
- Integrated **CI/CD** with GitHub Actions, Bazel, and Harness, automating **AWS deployments (Helm, EKS, S3)**
- Architected a field-mapping framework with **Python** and C4 system diagrams, eliminating pipeline bottlenecks
- **Won a company hackathon (80+ participants)** by designing an IP firewall in **Golang** with a team of engineers

JANA Solutions – *Software Engineer Intern*   **Jan 2022 – Apr 2022**
- Delivered 4+ project deliverables with **React**/**Redux** for a risk management tool generating $20 million/year
- Implemented downloadable reports using **TypeScript**, providing customers with PDFs presentable to executives
- Spearheaded a company presentation on web security to 50+ employees, increasing awareness of best practices

PROJECTS

ScanEats (winner) | *Python, JavaScript, Flask, React, TensorFlow, Postman*   **GitHub**
- Built a **hackathon-winning (200+ participants)** lifestyle app with Flask that analyzes the freshness of fruits

Youtistics | *TypeScript, React, Google Cloud Platform, YouTube Data API, Google Identity, Postman*   **GitHub**
- Engineered a stats app using **GCP** and the **YouTube Data API** that provides insight into YouTube viewing habits

EDUCATION

University of Waterloo – *Systems Design Engineering (Bachelor of Applied Science)*   **2021 – 2026**
Courses: Data Structures and Algorithms (C++), Digital Systems (C)   Cumulative GPA: 90% (4.0/4.0)