Kevin Bian

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Education

University of Waterloo   2018 — 2022 (Expected)

Honors Bachelor of Mathematics, Computer Science and Statistics, Co-op

President's Scholarship of Distinction, 3.8/4.0 cumulative GPA
Relevant coursework: Data Structures, Algorithm Design, Object Oriented Programming (C++), Combinatorics, Statistics

Experience

Tripadvisor   Jan — May 2020
Software Engineer Intern   Remote

- Engineered features including geo-scoped search results and reversion links; used React, Redux, GraphQL, and Java servlets to enhance the user experience of 400+ million monthly travelers
- Leveraged JavaScript to reduce geolocation retrieval times by 50% on nearby typeahead searches
- Enhanced backend monitoring capabilities with Java through scalable analysis of 2+ million data points
- Developed ETL pipeline algorithms in collaboration with machine learning team in Python, SnowSQL, and Hive

GoFleet Corporation   May — Aug 2019
Software Engineer Intern   Greater Toronto Area

- Utilized parallel requests/pagination on core backend API's, optimizing response times by up to 45%
- Spearheaded architecture of flight dashboard for Emirates Airlines/Dubai Airport with Angular and GraphQL to configure and display 500 000 data points daily
- Led the development of an Express backend with TypeScript, automating long manual networking processes

Stanford Graduate School of Business   Aug 2020 — Present
Research Assistant   Remote

- Researcher at the Venture Capital Initiative using machine learning and data engineering on VC contracts
- Transformed data frames and created pipelines using Python with Pandas and NumPy

Projects/Extracurricular

Collageify — Photo Collage Maker

- Developed a full-stack app for users to create and share collages via links using Go, React, and PostgreSQL

Type It — Multiplayer Web Typing Game

- Built a game where players have 5 seconds to type a random word using Node, Express, and sockets

Super Solver — Handwritten Sudoku Solver Using AI

- Leveraged image processing and ML with Python, OpenCV, and Scikit-Learn to detect digits and solve Sudoku

Hack the North 2019 — Volunteer Lead

- Trained, managed, and led a team of 100+ volunteers for Canada's largest hackathon with 2000+ attendees

Skills

- **Languages**: Python, JavaScript, Java, C++, C, SQL, HTML/CSS, Go
- **Technologies**: React, Express, Node, Angular, MongoDB, GraphQL, Unix/Linux, Cloud, PostgreSQL, Flask