

# Kevin Bian

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## Skills

**Languages:** Python, JavaScript, TypeScript, Java, C++, C, SQL, R, Go

**Technologies:** Angular, React, Express, Node, MongoDB, GraphQL, Android Studio, Linux, Google Cloud Platform

## Experience

### Tripadvisor

Jan — Apr 2020

Software Engineer Intern

Ottawa, ON

- Engineered features including geo-scoped search results and URL construction; used React, Redux, GraphQL, and Java servlets to enhance the **user experience of 400+ million monthly travelers**
- Leveraged caching in 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 to process core data for machine learning in Python, SnowSQL, and Hive

### GoFleet Corporation

May — Aug 2019

Software Engineer Intern

Toronto, ON

- Utilized parallel requests/pagination on core backend API's, **reducing initial webpage load times by up to 45%**
- Spearheaded architecture of flight dashboard for Emirates Airlines/Dubai Airport; incorporated Angular with GraphQL configure and display **500 000 data points daily**
- Engineered NLP tools such as priority classification and article recommendation, used Python, TensorFlow, and Flask to achieve **accuracy scores of over 88%**

## Other

### Type It — Multiplayer Web Typing Game

- Built a multiplayer game using Node.js, Express, and Socket.io giving players 5 seconds to type a random word

### Super Solver — Solves Sudoku Given Image File

- Leveraged image processing techniques using Python, OpenCV, and NumPy to extract Sudoku grid from image
- Trained a KNN-classifier using TensorFlow and Scikit-Learn to create a **OCR that detects digits with 96% accuracy**

### Hack the North 2019 — Volunteer Lead

- Trained, managed, and led a team of **100+ volunteers for Canada's biggest hackathon with 2000+ attendees**
- Collaborated with organizers on tasks such as enforcing security protocol and executing major activities

## Education

### University of Waterloo

2018 — 2023 (Expected)

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

President's Scholarship of Distinction — **3.75/4.00 cumulative GPA (84%)**

**Relevant coursework:** Data Structures, Algorithm Design, OOP (C++), Combinatorics, Statistics, Functional Programming