# 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** — Software Engineer Intern

Jan — Apr 2020 | 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** — Software Engineer Intern

May — Aug 2019 | Toronto, ON

- Spearheaded architecture and development of flight dashboard for Emirates Airlines/Dubai Airport, incorporated Angular with GraphQL to pull, configure, and display over **500 000 data points daily**
- Utilized parallel requests/pagination on backend API's, reducing initial webpage load times by up to 45%
- Led the development of an Express backend with Typescript, automating long manual networking processes
- 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 where players are given 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 on MNIST dataset using TensorFlow and Scikit-Learn to create a machine learning OCR that detects digits with 96% accuracy

#### Mood (Hack the North) — Anonymous Messaging App

• Developed a mobile app using Android Studio, Java, and Firebase with a matching system and NoSQL cloud database, allowing users struggling with mental health to connect with others

#### 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 multiple operational tasks such as enforcing proper security protocol, delegating tasks, and executing major activities for attendees such as judging

# **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