Kevin Bian

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Education

University of Waterloo   Sep 2018 — Apr 2023
Honors Bachelor of Mathematics, Computer Science and Statistics
- Cumulative GPA: **3.87/4.00**
- Relevant Coursework: Operating Systems, Algorithms, Statistics, Data Analysis, Numerical Computation

Experience

Amazon   Aug 2021 — Present
Software Development Engineer Intern
- Working on Amazon Web Services (AWS) to help developers build, run, and scale background jobs on the cloud with Simple Workflow Service
- Upgrading distributed caching services to improve latency and security using Java, Memcached, and EC2

Shopify   Jan 2021 — Apr 2021
Software Developer Intern
- Reduced deployment times **by 30%** for feature flag removals by running asynchronous jobs using Ruby on Rails
- Developed identification updates for **5,300+ Shopify Plus businesses** using GraphQL, PostgreSQL, and React
- Prototyped a middleware to proxy requests and orchestrate multi-sessions securely with Koa and Typescript

Tripadvisor   Jan 2020 - May 2020
Software Engineer Intern
- Engineered redirection links to manage misspelled and nearby searches for millions of travelers using React, Redux, GraphQL, and Java
- Enhanced backend ETL pipelines to transform/clean **2+ million data points** using Python, Snowflake, and Hive

GoFleet   May 2019 — Aug 2019
Software Engineer Intern
- Optimized backend **response times by up to 45%** by utilizing parallel requests/pagination on core APIs
- Spearheaded the architecture of flight dashboard **serving 500,000 data points daily** for Emirates Airlines/Dubai Airport with Angular and GraphQL

Projects & Research

Stanford University (Research Assistant)   Aug 2020 — Apr 2021
- Data Engineering and Machine Learning at the Venture Capital Initiative directed by Prof. Ilya A. Strebulaev
- Achieved **f1-scores of ~94%** by building feature extraction pipelines/models with XGBoost, Python, and AWS

Projects
- **Collageify**: Full-stack app for users to create and share collages via links — Go, React, and PostgreSQL
- **Super Solver**: Handwritten Sudoku solver using AI — Python, OpenCV, and Scikit-Learn
- **Settlers of Catan Clone**: Multiplayer board game — C++, Linux, MVC design pattern, and OOP principles
- **Hack the North 2019**: Co-led 100+ volunteers for Canada's biggest hackathon with 2000+ attendees

Skills

- **Languages**: Python, Javascript, Java, C++, C, SQL, R, Go, Ruby
- **Tools**: React, Redux, Express, Node, PostgreSQL, MongoDB, GraphQL, AWS, GCP, Unix, ETL Pipelines