

Skills

Languages | Java, C, C++, Python, Go, Ruby, JavaScript, SQL, HTML/CSS Technologies | Apache Spark, React, Ruby on Rails, Next.js, Node.js, Express.js, Flask Tools | Git, PostgreSQL, AWS S3, Redis, MongoDB, Argo CD, Kubernetes, Docker

Education

University of Waterloo | Bachelor of Computer Science, Business Specialization

09/2020 - 04/2024

CAV: 94.4% & GPA: 3.98/4.00 — Grace Hopper Scholar '22 & '21, Mathematics National Scholarship (\$25,000) '20 Involvement: UW Blueprint, TechNova, Waterloo Business Review, Tech+ Mentor, Math Orientation Lead

Work Experience

Uber | Software Engineer Intern %

06/2022 - 08/2022

San Francisco, CA

- Led cross-team initiative to rearchitect and scale routing simulation service, shipping a Java API layer to production to support 5000+ monthly sims across 150+ business use cases, fully deprecating old sim lifecycles
- Achieved over 70% reduction in average simulation load time and 10x drop in CPU utilization during sim data loading through redesigning Redis data structures and logic flows to enable dynamic sim specifications
- Overhauled simulation resource allocation logic to support more concurrent sims, presenting and implementing designs for custom resource tuning and prioritizing discussion around software evolution and fallback logic

Bloomberg | Software Engineer Intern %

01/2022 - 04/2022

New York, NY (Remote)

- Architected end-to-end ETL pipeline to archive 1.6TB per month of historical asset position data to AWS S3, reducing database volume by 30% to improve backend service processing performance for 1000+ clients
- Scaled archival job to support 20+ million data rows using Apache Spark and SparkSQL, leveraging parallel processing along with resource tuning and caching strategies to lower job time from 3 hours to 10 minutes
- Advocated for schema changes to better support sustainable data growth, proposing and driving changes in Go service and PostgreSQL database to create a partition column on asset position tables

Motive (Formerly KeepTruckin) | Software Engineer Intern %

05/2021 - 08/2021

San Francisco, CA (Remote)

- Spearheaded the first optimization of a new vehicle pairing algorithm, developing Ruby scripts to benchmark performance and identify gaps on historical data, resulting in a 7% increase in algorithm success rate
- Streamlined data collection for the product team through cross-table SQL queries to Snowflake, designing 9 visualizations on Redash to improve accessibility to 600,000+ daily geolocation messages
- Owned backend development of API endpoint with Ruby on Rails, PostgreSQL database migrations, and new data population to each geolocation message passing the service's Go pipeline

Leadership

UW Blueprint | Product Manager, Community Fridge KW %

01/2022 - 04/2022

- Defined product strategy for a scheduling platform to increase food accessibility, co-leading team of 9 developers
- Headed weekly client meetings and collaborated with 2 designers on product specs, prototypes, and user testing

UW Blueprint | Project Developer, Social Diversity for Children %

09/2021 - 12/2021

- Built a platform with team of 7 developers using Next.js, AWS, and Railway to streamline program registration
- Drove program waitlist development, leveraging Prisma to implement CRUD functionalities to Heroku PostgreSQL

TechNova | Hackathon Organizer 🦠

04/2021 - 08/2021

- Founding member of the University of Waterloo's 1st global women+ in tech hackathon
- Organized cross-team projects, amassing 70+ mentors and 500+ hackers from 25+ countries for 6 days of events