

Daniel Ye

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Education

UNIVERSITY OF WATERLOO

Software Engineering, Specialization in Statistics

Waterloo, Ontario

Experience

LITMUS [↗](#)

Software Engineering Intern (Golang)

JAN - 2024

Toronto, Ontario

NAGARRO [↗](#)

Software Developer

MAY - AUG 2023

New York, New York

- Worked on the Fleet Mobility team helping create & maintain **Spring APIs** to service **2000+** field technicians
- Enhanced API speed by **40%** & reduced data transfer overhead by using **Spring caching** & **compression**
- Simplified technician repair ordering process by adding & populating vehicle attributes into **Azure SQL DB**
- Accelerated frontend searching times by up to **85%** by incorporating local caching in **4** distinct sections within app
- Optimized logging integration with **Splunk** & **AWS** through data filtering for enhanced system monitoring

JASPER COMMERCE INC. [↗](#)

Software Developer

JUN - SEP 2022

Toronto, Ontario

- Contributed to the IO team to help implement testing & maintain **Laravel** & **React.js** applications
- Identified **10** major issues & reduced production issues by implementing testing coverage on new features
- Fixed **15** critical backend service defects for enhanced reliability & customer satisfaction

Projects

SHOPPAL [↗](#)

iOS Application Development

DEC 2022

- Built an **iOS app** in Swift for scanning & archiving grocery receipts, enabling access to purchase history, & insights
- Established a **custom API** using **AWS** services to parse receipts & retrieve purchase data in real-time

C++ COMPILER [↗](#)

Parsing, Semantic Analysis, and Code Generation

DEC 2023

- Developed a **C++ compiler** for tokenizing, syntax checking, and translating code into Assembly language
- Implemented advanced **data structure manipulation** using trees, vectors, and maps for efficient data handling
- Utilized **parsing algorithms** and **compiler design principles** in the implementation of a functional parser

BLACKJACK VISION GLASSES [↗](#)

Video Recognition & Data Processing

SEP - DEC 2022

- Used **Raspberry Pi Module** & **OpenCV** to facilitate image recognition software for card detection
- Employed the Blackjack Simulation Algorithm to compute optimal moves based on the cards on the table

Skills

Languages: Java, Python, Go, C/C++, JavaScript, Swift, Dart, SQL

Frameworks: Spring, Node.js, React.js, Vue.js, JHipster, Express, Flutter, Cypress.io

Technologies: Git, Jira, Docker, AWS, MSSQL, DynamoDB