

# Mehr Sharma

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## SKILLS

<b>Languages</b>	Python, Java, JavaScript, Typescript, HTML, SQL, CSS, C++, C
<b>Tools &amp; Frameworks</b>	React, Vue.js, React Native, Redux, Node.js, jQuery, Git
<b>Additional</b>	AWS, Jenkins, SumoLogic, Cloud/Serverless Models, Microservice Architecture

## EDUCATION

**University of Waterloo** - Bachelors of Applied Science in Computer Engineering | 2019 - April 2024

- **Relevant Coursework** - Algorithms and Data Structures, Software Architecture, Databases, Computer Networks
- **Awards** - President's Scholarship of Distinction, John Lorimer Scholarship, Richard/Elizabeth Madter Scholarship

## EXPERIENCE

**Incoming Software Engineering Intern - Intuit Inc.**

Toronto, ON (Sept 2023 - Dec 2023)

- Developing and contributing to design and architecture of projects using a React/JavaScript/Python/AWS stack

**Software Engineering Intern - Uplift Inc.**

Menlo Park, CA (Jan 2023 - Apr 2023)

- Created a component in an infrastructure migration to process an estimated **\$130+ million per annum** in loan settlements using **AWS lambda functions in Python, integrated with AWS S3 and EventBridge**
- **Developed complex full-coverage integration tests with Pytest** to simulate production-level loan transactions
- **Led frontend development and cross-team communication** for a new internal tool to allow the loan servicing team to manage and modify virtual credit card details using **React and Python**
- **Designed a batch job** to generate and send daily email CSV reports on currently over-settled loans to servicing team using Python and S3, reporting on over **\$2.2 million** of excess funds monthly

**Software Engineering Intern - Uplift Inc.**

Menlo Park, CA (May 2022 - Aug 2022)

- Implemented a multi-component user flow to enhance autopay capabilities for 60k+ end users by using **React** and **Redux** with **TypeScript** for application level state management
- **Independently built an end-to-end feature** for customer team to monitor and filter user communications
- Created a tool to allow Uplift developers to self-manage access to permission groups through frontend portal by designing **AWS lambda functions and endpoints** in Python integrating with **AWS Cognito** and **DynamoDB**

**Full Stack Developer Intern - Genesys Laboratories**

Markham, ON (Sept 2021 - Dec 2021)

- Planned and designed reusable frontend scheduling components using **Vue.js** and **Typescript**
- Generated custom New Relic and PagerDuty alarms by creating Python scripts, **improving client-side error detection by 50%** monitored using **SumoLogic** and **AWS CloudWatch**
- Developed **scalable microservices** using **AWS Lambda** and **Python** along with **DynamoDB**

**Agile Software Engineer Intern - TribalScale Inc.**

Toronto, ON (Jan 2021 - Apr 2021)

- **Developed a secure backend** using **AWS Lambda** and **Serverless** with **Node.js**, independently designed **DynamoDB** data models to initiate backend development for a new webapp
- Created frontend components with **React/Redux**, configured user authentication using **AWS Cognito**

**Full-Stack Developer Intern - Rivvi Inc.**

Toronto, ON (Jan 2021 - Apr 2021)

- Independently created full-stack app components including forms and calendars using **React** and **Node.js**
- Designed an **SQL schema** and developed a **Node server using Express**, deployed server using **AWS SES** and **EC2**

## PROJECTS

**Personal Website (React, TypeScript, AWS Amplify)** - Responsive site showcasing my projects and portfolio

**BrewBuddy (Java, Kotlin)** - A mobile app designed to connect coffee-lovers with local sustainable businesses, provide custom recipe recommendations, and provide a marketplace for specialized equipment

**PolyTect (Python, Keras, React Native)** - A convolutional neural network that detects defects in high-voltage electrical polymer insulators through image uploads in a mobile/web app created with React Native