

# Mehr Sharma

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## SKILLS

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

## EDUCATION

**University of Waterloo - BAsC., Honours Computer Engineering** **Sept 2019 - Apr 2024**  
• *Relevant Coursework* - Algorithms and Data Structures, Software Architecture, Databases, Computer Networks

## EXPERIENCE

**Software Engineering Intern** **Sept 2023 - Dec 2023**  
*Intuit Inc.* *Toronto, ON*

- Developing services and backend code for the TurboTax Online 2024 platform primarily using Java and SpringBoot

**Software Engineering Intern** **Jan 2023 - Apr 2023**  
*Uplift Inc.* *Menlo Park, CA*

- 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* for a new internal tool to manage 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** **May 2022 - Aug 2022**  
*Uplift Inc.* *Menlo Park, CA*

- 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** **Sept 2021 - Dec 2021**  
*Genesys Laboratories Inc.* *Markham, ON*

- 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, Python, and DynamoDB*, managed CI/CD with Jenkins and Git

**Agile Software Engineer Intern** **Jan 2021 - Apr 2021**  
*TribalScale Inc.* *Toronto, ON*

- *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*

## PROJECTS

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

**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

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