Mehr Sharma

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SKILLS

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

EXPERIENCE

Software Engineer - Uplift Inc.   *Toronto, ON (Jan 2023 - Apr 2023)*

- Created a component in an infrastructure migration to process an estimated **$130+ million per annum** in loan settlements using **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 Engineer - Uplift Inc.   *Toronto, ON (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 **lambda functions and endpoints** in Python integrating with **AWS Cognito** and **DynamoDB**

Full Stack Developer - 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 - 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 - Rivvi Financial   *Toronto, ON (May 2020 - Aug 2020)*

- 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** to handle client-side requests, deployed data server using **AWS SES and EC2**

PROJECTS

Personal Website (React, TypeScript, AWS Amplify) - Responsive portfolio site showcasing my art

Real Time Operating System (C) - Created low-level RTOS elements to manage multiprocessing and threads, scheduling, memory, and I/O device communication

Breast Cancer Detection Algorithm (Python) - Logistic regression and data visualization with NumPy

EDUCATION & AWARDS

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

President's Scholarship of Distinction, John Lorimer Memorial Scholarship, Richard/Elizabeth Madter Scholarship