Setu Potnis

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Skills

Technologies
TypeScript, JavaScript, Rust, Python, C++, Java, CUDA, SQL

Libraries / Frameworks
React, Vue, Angular, Express, Node, Redux, Flask, JQuery

Tools
Git, AWS, Azure, Snowflake, Datadog, Terraform, GCP, Salesforce

Professional Experience

Backend Engineer, Shopify — May 2022 – Aug 2022
- Oversaw end-to-end development and delivery of features related to lost package reimbursement, including gathering requirements from stakeholders, creating architecture diagrams to model data flow, and conducting regular feature demos to meet business expectations
- Implemented AWS Lambda for early detection of lost packages, achieving up to 2-day earlier detection, while also leveraging Amazon CloudWatch to monitor feature progress and DynamoDB to create API endpoints for seamless access to real-time pricing data
- The time for reimbursement shrunk from days to a few hours by identifying bottlenecks, increasing merchant satisfaction and retention
- Achieved a 44% improvement in lost package detection by developing an AWS Lambda function to periodically query for lost packages
- Improved error detection rate to 36% by implementing Datadog monitors to alert on instances of high latency and 500-level errors
- Integrated Snowflake data warehouse into the backend architecture, enabling advanced analytics for reimbursement metrics

Frontend Engineer, Nuvalence — Jan 2022 – Apr 2022
- Increased usability of a component library by creating 12 new frontend features with React.js, Vue.js, and AngularJS in TypeScript
- Created architecture documentation for cross-browser development and accessibility standards when developing a component library
- Improved user satisfaction by resolving 23 frontend bugs reported by users in React.js and Vue.js.

Full Stack Developer, National Research Council — May 2021 – Aug 2021
- Achieved a 14% increase in operation speed by applying object-oriented design principles to enhance the microservices infrastructure
- Created 9 frontend features with JQuery and D3.js, allowing data to be presented and viewed on different graphs
- Fixed 14 back-end bugs with Java, improving request speed by 12% while maintaining full functionality

Infrastructure Engineer, Manulife — Jan 2021 – Apr 2021
- Reduced costs by 70% by using Azure Data Factory and Salesforce connectors to create audit reports for the team
- Cut service costs by $30,000/annum by constructing infrastructure for microservices in Azure through Terraform
- Increased GraphQL request speed by 8% by creating a microservices library in TypeScript and testing with Jest

Frontend Engineer, Box Labs — Sep 2020 – Dec 2020
- Raised user retention by 23% by improving product aesthetic and UX of online services with React.js and Express.js
- Increased the number of large-scale features from 10 to 25 by converting markups to functional UI with React.js

Frontend Developer, National Research Council — Jan 2020 – Aug 2020
- Decreased energy expenses by 20% by creating visualizations and ML tools for energy statistics in JavaScript and D3.js
- Identified and recommended 6 new web features in conjunction with business clients and project managers
- Increased scalability and transfer speed by 150 ms/MB by refactoring algorithms in Javascript

Projects

Form Checker, Hack the North 2021 — Sep 2021
- Used React.js, Flask, and Firebase to create an application hosted on GCP to analyze hardware data received by clients during workouts

Facebook Clone, Social Media — Dec 2020
- Created a clone of Facebook with React.js and Firebase to process data with authentication using Google Auth

uOttaFit, Health and Fitness at UOttaHack3 — Feb 2020
- Achieved top 20 out of 177 participants for technology which improved health and wellness of users, created with React and Firebase

Education

BASc in Nanotechnology Engineering with Computing Option, — Sep 2018 – Apr 2023
University of Waterloo
- Relevant Courses: Programming for Performance in Rust, Machine Learning, Computer Networks, Data Structures and Algorithms