

Indusha Semba

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Skills

Languages: Go, Java, Python, JavaScript/TypeScript, Bash, Kotlin, SQL

Frameworks: React, Redux, Angular, Node, Express, Flask

Tools: AWS, Kubernetes, Docker, Git, Jenkins, Azure, Firebase, MongoDB

Experience

Mattermost | Software Engineer

Palo Alto, CA (remote) | Jan-Apr 2021

- Enable Mattermost cloud services on various systems using robust technologies including Kubernetes operators and a custom cloud provisioner, used by 500+ developers
- Implemented backend functionality to import and manage Kubernetes installations using Go to enhance cloud plugin capabilities
- Led the development of an intuitive Cloud Plugin UI using React, Redux, and Go to allow developers to create, delete and view installations via any channel in Mattermost
- Added ability for users to specify whitelisted Docker image names and other properties when creating an installation
- Wrote unit tests in Go to expose bugs in cloud plugin features improving code coverage by 50%

Long View Systems | Cloud Developer

Toronto, ON (remote) | May-Aug 2020

- Created Jenkins pipeline integrated with SonarQube for continuous build, deployment, and improved insight into code integrity
- Deployed and managed multi-container applications with Azure Kubernetes services to reduce deployment time for 100+ clusters
- Enhanced role based access control by securely storing credentials for all applications within Key Vault using Managed Identities
- Provisioned EC2 infrastructure using Terraform, deployed and tested them using Ansible for improved automation
- Created Azure and AWS cloud security remediation runbooks for business critical security alerts

Interac (Innovations Lab) | Full Stack Developer

Waterloo, ON | Sept-Dec 2019

- Developed a mobile app with support chatbot for requesting transactions using React Native and Redux targeting 7M+ users
- Implemented face recognition checkout feature using Azure Cognitive APIs and Angular to improve security and efficiency of online purchases for 2M+ daily users
- Created a continuous delivery pipeline to deploy Dockerized applications to AWS using Jenkins for 30% faster feature release time

Grand & Toy | Software Developer

Toronto, ON | Jan-Apr 2019

- Developed a dashboard using React/Redux, enabling clients to customize their experience and reduce manual touch points by 65%
- Built interactive and customizable widgets to bring valuable features to the forefront of the customer experience
- Implemented REST endpoints for web app using Django and serialized data using protobufs transmitted over gRPC to reduce bottlenecks by 30%

Ericsson | Operations Support

Toronto, ON | May-Aug 2018

- Automated manual order summary process using Python and Openpyxl to improve efficiency by 90%
- Worked closely with business stakeholders to obtain requirements and develop complex SQL queries and stored procedures to generate data reports

Projects

RentME | Flask, React, AWS

- Created an OSINT web app to streamline house-hunting process by predicting potential rental value of homes using a Random Forest machine learning model trained using geographical, availability and privacy information
- Built APIs and ML model backend using Flask and Python with a React frontend for a seamless experience

Hangry Startup (Lead Backend Developer) | React Native, Express, MongoDB

- Created a frictionless social-distancing mobile application using React Native and Expo to allow customers to view restaurant menus by scanning QR codes, partnered with over 60 restaurants
- Implemented database schema and authentication using MongoDB to manage restaurant and user information

Education

University of Waterloo | 4A Management Engineering (BASc)

Sept 2017-Apr 2022 (expected)

Relevant Courses: Data Structures and Algorithms, Database Systems, Data Mining, Search Engines