Indusha Semba

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Skills

Languages: C++, Java, Rust, Python, C/C#, Go, SQL, JavaScript, React/Redux

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

Experience

Microsoft | Software Engineer II   July 2022 - Present | Redmond, WA

- Developed ARM security driver for embedded systems that facilitated real-time register value retrieval through PCI Bus Protocols and the Windows Driver Framework, streamlined firmware issue detection leading to a 30% reduction in bug tickets
- Resolved critical OS bugs for the TPM (Trusted Platform Module) addressing issues with attestation, authentication, and boot errors using Kernel/System debugging improving reliability for 1 Billion+ devices
- Revamped hardware security test suite in Rust, addressed bit discrepancy, memory and compatibility issues, thereby improving performance and reliability for leading chip manufacturers (Nvidia, Intel, STM)
- Developed cross platform security vulnerability troubleshooting tool focused on detecting cryptographic attacks using C/C++

ADP | Software Engineer Intern   Sept - Dec 2021 | New York City, NY

- Built compliance chatbot using Go and WebEx APIs to output risk and vulnerability reports for AWS Accounts to improve monitoring, used by 200+ engineers
- Led PostgreSQL upgrade for Jira to patch security vulnerabilities, set up EC2 instances, migrated Amazon RDS Postgres data using an ETL Pipeline and conducted end to end functional testing

Mattermost | Software Engineer Intern   Jan - Apr 2021 | Palo Alto, CA

- Led the development of an intuitive Cloud Plugin UI using React and Redux to allow developers to create, delete and view Kubernetes installations via any messaging channel in Mattermost
- Implemented backend commands for Cloud Plugin using Go allowing the creation and management of Kubernetes installations directly from Mattermost, used by 100+ developers

Long View Systems | Cloud SDE Intern   May - Aug 2020 | Toronto, ON

- Deployed multi-container apps with Azure Kubernetes services reducing deployment time for 100+ clusters

Interac | Full Stack Intern   Sept - Dec 2019 | Toronto, ON

- Developed mobile app with NLP chatbot for transactions using React Native and Redux targeting 7M+ users

Grand & Toy | Software Engineer Intern   Jan - Apr 2019 | Toronto, ON

- Developed a dashboard using React and Redux enabling 170K+ clients to customize their experience, reducing manual touch points

Ericsson | Software Engineer Intern   May - Aug 2018 | Toronto, ON

Projects

RentME: Web app to streamline house-hunting by predicting potential rental value of homes using a Random Forest machine learning model trained using geographical, availability and privacy information.

Hangry Startup: Smart menu app using React Native, partnered with over 60 restaurants.

Education

University of Waterloo Bachelor of Applied Science   Apr 2022

Management Engineering, Computing Option (Graduated with Distinction)

Courses Include: Data Structures and Algorithms, Databases, Data Mining, Human Computer Interaction