

# Indusha Semba

[indushasemba.com](http://indushasemba.com) | [github.com/IndushaS](https://github.com/IndushaS) | [indu.semba@gmail.com](mailto:indu.semba@gmail.com)

## Skills

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

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

## Experience

### Microsoft | Software Engineer

July 2022 - Present | Redmond, WA

- Developed a security troubleshooting tool for detecting cryptographic attacks, optimized with multi-threading for improved performance, and integrated a UI into Windows Settings using C++
- Resolved high priority Azure and Windows Bugs for the TPM (Trusted Platform Module) related to attestation, authentication, and boot errors using Azure, SQL and Kernel Debugging
- Enhanced Intel security driver by utilizing Windows Driver Framework to read register values, identify firmware issues, and improve diagnosability across Windows platforms
- Revamped security test suite in Rust, addressed memory issues, Bit discrepancies, and compatibility issues thereby improving performance and reliability for leading chip manufacturers (Nvidia, Intel, STM)

### ADP Lifion | Software Engineer

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

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 Developer

May - Aug 2020 | Toronto, ON

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

### Interac | Full Stack Developer

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

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

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

Management Engineering, Computing Option (Graduated with Distinction)

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