Sahisnu Selvaraj

EDUCATION

Amrita Vishwa Vidyapeetam

Bachelor of Technology - Computer Science and Engineering; GPA: 8.23

Tamilnadu, India July 2017 - June 2021

SKILLS SUMMARY

• Languages: Java, C, C++, Python, Swift, Solidity, JavaScript, SQL, Bash, Unix Shell

• Frameworks: Spring Boot, Web, Batch, MVC & Security, Kafka, RxSwift, UIKit, Flask, Gatling, Yocto, React

• Tools: Jenkins, Docker, GIT, XCode, SumoLogic, Appium, Selenium, BlackDuck, Terraform, Truffle, Ganache

• Platform&DB: Linux, macOS, Windows, AWS, GCP, MongoDB, PostgreSQL, MySQL, SQLite

EXPERIENCE

• Software Development Engineer (Full-time)

Amazon

Oct 2022 - Present

Email: sahi.selva@gmail.com Portfolio: link Mobile: +91-96987-31329

Chennai

- **Productizing platform modernisation**: Working with leadership and PMs to productize a. ReactNative based Launcher application for critical alerts and dialogs; b. Secure storage and access mechanism using ARM TrustZone trusted environment for secrets c. Rendering stack GKT+ upgrade to get latest UI features and flexibility
- Encryption: Implemented Folder-Based Encryption framework which provides a fully-managed solution for applications who consume Create&Delete encrypted folder APIs, the framework takes care of Encrypted write and Decrypted read and also manages the encryption key. Negligible KPI differences approx 1% regression. This helped increasing customer trust on new devices like Scribe offering note taking capabilities adds more value to secure storage Stack: C++, Boost libs, keyring, fscryptctl, Kernel modules FScrypt
- Media Transfer Protocol (MTP): Owned the E2E design & implementation of the USB transfer protocol migration of Kindle device, from legacy (from 1st gen). Reduced 98% of user data corruption, 4x performance, anti-jailbreak, enabler for filesystem encryption & upgrades.
 Stack: C, Bash shell, tizen mtp-responder, kernel modules libcomposite, GadgetFS, ConfigFS
- Kindle Platform: Onboarded security Open-source fixes of 8+ components incl Network application & data-link layer libs, compression, unix utilities. Leveraged HW acceleration for AES using a crypt library with new ARM instruction, reduced 50% latency
- Software Engineer II (Full-time)

NortonLifeLock

Jul 2022 - Oct 2022

Chennai

- Intelligence Service (Research): Led the design of MVP from Norton research project and architected a fault-tolerant cloud-native microservice and was responsible for efficacy drafting to aid the productization. Instrumented load/performance tests and optimised the performance to 2 TPS

 Stack: Python; Flask; Redis; Celery; AWS S3, ECS; GCP; PostgreSQL; Docker, Jenkins
- Software Engineer I (Full-time)

NortonLifeLock

Jun 2021 - Jun 2022

Chennai

- Image Upload Service: Designed and developed async REST APIs for CRUD operations, setup the encrypted storage and containerised service deployment, the service handles max throughput of 5 uploads
 Stack: Java; Spring suite; AWS S3, SQS, KMS, ECS, ALB; MongoDB; Jenkins
- o **BatchMaster service**: Designed and owned the end-to-end implementation, QA & CICD deployment of a master service which is a HTTP batch dispatcher, response aggregator and Stream notifier(Kafka producer)

 Stack: Java; Kafka; AWS Lambda, API Gateway, SQS, CloudWatch, SAM; Cucumber; Jenkins
- Data Privacy Project(GDPR, CCPA): Designed and implemented serverless autonomous system which provisions the functionality for Right to be forgotten data subject rights' to all LifeLock customers.

 Stack: Java; MongoDB; AWS Step function, Lambda, SAM; Docker
- LifeLock Identity iOS app: Worked on iOS app for new feature offering to Japan called Social Media Monitoring, it was a great success which led to fast-follower extension SMM-2.0 and the IPhone app is rated 4.3/5 stars Stack: SwiftUI; RxSwift; XCUITest; TestNG
- Software Intern (Internship)

NortonLifeLock

Jan 2021 - Jun 2021

Chennai

- HomeTitle feature: Helped develop the data layer for Kafka consumer microservice, functional automation, setup CICD pipelines. Created PM/Dev insights dashboards and alarms, observed throughput around 20,000 records per week Stack: Java; Spring suite; MongoDB; Cucumber; Jenkins; SumoLogic
- DWM & ID Advisor: Automated & Optimised the functional suites for Android and iOS mobile apps to aid the EMEA-wide(14 countries) launch.

Stack: TestNG; Appium; AWS DF(DeviceFarm)

PATENTS AND PUBLICATIONS

- A Method for Land Registry by utilizing Ethereum Platform Innovation Patent, Australian Govt
- A Product Authentication Scheme for Supply Chain system via Smart Contracts and Facial Recognition
- An Efficient and Novel Buyer and Seller's Distributed Ledger Based Protocol Using Smart Contracts Springer

Honors

- Meta/Facebook Global Hackathon: Secured a place in top 250 in the world, awarded winner prize gift card
- NortonLifeLock Execute: Smart & Scrappy Rewarded for great teamwork and collaboration across teams