Sahisnu Selvaraj

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EDUCATION

- **Amrita Vishwa Vidyapeetam** — Tamilnadu, India
  Bachelor of Technology - Computer Science and Engineering; GPA: 8.23 — *July 2017 - June 2021*

SKILLS SUMMARY

- **Languages**:   Java, Python, Swift, Solidity, C, C++, JavaScript, SQL, Bash, Unix Shell
- **Frameworks**:   Spring Boot, Web, Batch, MVC and Security, Kafka, Cucumber, RxSwift, UIKit, Flask, Gatling
- **Tools**:   Jenkins, Docker, GIT, XCode, SumoLogic, Appium, Selenium, BlackDuck, Terraform, Truffle, Ganache
- **Platforms**:   Linux, macOS, Windows, AWS, GCP
- **Database**:   MongoDB, PostgreSQL, MySQL, SQLite

EXPERIENCE

- **Amazon** — Remote
  Software Development Engineer (Full-time) — *Oct 2022 - Present*
  - **E-reader Framework**: Working on device daemons built on dbus, patching up OSS components, and experimenting with a better build system reducing 45% build time

- **NortonLifeLock** — Remote
  Software Engineer (Full-time) — *Jul 2022 - Oct 2022*
  - **Credit Monitoring**: On-boarded the new feature to the User-Fulfillment BPM. Worked on vendor integration Batch Processor jobs utilising **Spring Batch**
  - **Intelligence Service (Research)**: Worked on efficacy testing and transitioning the **Flask** project to LL-Cloud. **Dockerized** the test suites and integrated into the CICD pipeline. Created Performance test suites using **Gatling**, and improved throughput to 2 TPS, Upgraded the design to improve the fault-tolerance of the system utilizing **Celery**

- **NortonLifeLock** — Remote
  Associate Software Engineer (Full-time) — *Jun 2021 - Jun 2022*
  - **Image Upload Service**: Designed and developed multi-threaded-async REST APIs for CRUD with **Java Spring Web, Boot and Security** utilising **AWS S3, SQS** for storage and HTTP request pooling resp and encryption layer using **AWS KMS** Containerised using **Docker** and running it as **ECS** task with an **LB** in front. Owning BDD QA component - designed and automated suites using **Cucumber**, Integrated deployment process with **Jenkins**.
  - **Multi-tier serverless microservice**: Implemented multiple **AWS Lambda** handlers using **Java** and integrated with an external service to post requests and process payloads utilising **ApiGateway, SQS** for authentication and response pooling resp. Configured the lambdas to be **Kafka** Producers for alert notifications, **CloudWatch** event triggers for lambda invocations. Automated QA test suites and integrated deployment process using **Jenkins**.
  - **Data Privacy Project**: Designed and implemented serverless function using **Java** with help of **SAM** and integrated it to the **AWS Step Function** designed to adhere EU's GDPR Law, providing support by analysing logs and tracking failures using **SumoLogic** dashboards and alarms, impacting 80% of LifeLock users.
  - **LifeLock Identity iOS app**: Worked on adding a new LifeLock feature to the existing suite of features offered to Japan using **SwiftUI, RxSwift**. Created QA automation suites with **Appium, TestNG**. The extended feature is offered to Japan and great success led to plans for 2.0 and the app is top grossing with millions of downloads.

- **NortonLifeLock** — Remote
  Engineer-Intern (Internship) — *Jan 2021 - Jun 2021*
  - **Kafka Consumer microservice**: Worked on data layer and unit test suite using **Java Spring** and function test suite using **Cucumber** frameworks. Worked on CICD **Jenkins** deployment/release pipelines, **SumoLogic** insight dashboards and alarms utilizing the service logs. service has been consuming over 20,000 records per week
  - **Mobile feature release - EMEA**: Automated QA test suites for Lifelock **Android** and **iOS** apps to support EMEA release 14 countries, using **TestNG, Appium** frameworks and scheduled regression with **AWS DF**

PROJECTS

- **Issue tracking system**: (Work in progress) Lightweight, Jira-like engineering product management tool, following OOAD, using design patterns, Java Spring Frameworks

- **Memory iOS game**: Multi-themed cards memory game app built with MVVM architecture leveraging both functional and Object-Oriented programming
  Tech: SwiftUI, XCode

- **Product Authentication service**: Supply Chain Management using Blockchain technology, developed using smart contracts backed by Ethereum Blockchain and authentication using facial recognition.
  Tech: Solidity, Truffle, Ganache, OpenCV Python

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