

SHIRANTHA MADUSANKA

Software Engineer | Cyber Security Enthusiast | Cloud Enthusiast | Learner



PERSONAL PROFILE

A software engineer who loves building cloud and web-based products. Recently I have developed cloud automation programs and server-side APIs using Python and shell scripts. Also, I develop containerized applications using Docker and Kubernetes. I spend my free time learning cybersecurity and cloud-related technologies. I'd love to apply my excellent coding and problem-solving skills to develop software products that make people's lives better.

CONTACT

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- StackOverflow: 9631728/shirantha-madusanka

CERTIFICATION

Cloud Architect MS Azure | Udacity Nano degree

- Designing infrastructure and managing migration
- Cost optimization and monitoring
- Azure cloud security

Ethical Hacker | Udacity Nano degree

- Introduction to ethical hacking
- Penetration testing and red teaming

Certified Blockchain Developer | Blockchain Council

- Following

LANGUAGES

- Sinhala | Native
- English | Professional
- Japanese | NAT5 Pass | NAT4 Attempt

EDUCATION

BSc in software engineering (2015 - 2019)

- University of Kelaniya | Sri Lanka
- Computer Science
- Second class upper (GPA 3.4391)

EXPERIENCE

Rakuten Mobile, Inc. | Rakuten Symphony Inc. | Software Engineer | February 2020 - Present (3 years 5 months) | Japan

Responsibilities

- Writing well-designed, testable code using Python3
- Develop, and troubleshoot microservices on Linux OS
- Containerize microservices with Docker and deploy them on Kubernetes clusters
- Develop REST API endpoints and long-running processes with Python fast API, Celery and RabbitMQ
- Develop CI/CD pipeline with GitLab CI/CD
- Enhance BM security by designing and implementing password rotation functionality on OS password, and BMC password with Hashicope vault
- Enhance system security by implementing RBAC on applications
- Deploy OBF agents on different Kubernetes clusters and configure them to stream data
- Support Unit testing, Integration testing, and continuous demonstrations
- Version control, code review with Github, Gitlab
- Follow agile methodology and be responsible for maintaining JIRA stories
- Teamworking and preparing support materials for QA and other teams
- Tech Stack: Python3, Fast API, Docker, Kubernetes, Linux, Vault, CURL Github, Gitlab, Jira

Achievements

- Develop functions and workflows that can deploy hundreds of virtual components on Kubernetes clusters without any user interaction
- Upgrade OS and FW on hundred of network devices
- Rotate passwords on thousands of BM servers periodically
- Develop Consul templates that can traverse through a complex vault directory structure and read secrets
- Automate SDLC as much as possible to enhance teams productivity
- Integrate different microservices using REST API and deliver production-ready code
- Secure all communications towards external components
- Work under pressure, meet deadlines, and achieve customer satisfaction

Freelancer | Angular developer

- 2020 - Present
- Develop web applications with Angular2 and Typescript
- Debug Angular apps
- Containerized and deploy Angular apps on on-premises and AWS s3
- Develop web components using Angular

hSenid Int | Junior Software Engineer

July 2019 - December 2019 (6 months) | Sri Lanka

Responsibilities

- Develop REST APIs using Spring Boot and Laravel 5
- Connect Larvel controllers/services with MySQL DB
- Enable Google OAuth2 and integrate Google Login
- Develop an Angular app to consume server-side endpoints
- Develop digital marketing landing pages with JQuery, Bootstrap, HTML, and CSS3
- Write script for Arduino Uno ATmega-328p controller using pure C
- Tech Stack: Spring Boot, Laravel, Angular2, OAuth2, JQuery, Bootstrap, HTML5, CSS3, Pure C, MongoDB

Achievements

- Integrate Angular frontend app with SpringBoot backend server
- Create a Login/Signup UI in Angular and Authenticate the user with Google OAuth2
- Authenticate user with middleware in Laravel backend server
- Develop a data(temperature, humidity, and light level) collector setup using Arduino and store collected data in Mongo DB
- Work under pressure and meet deadlines