Avinash Murugappan

SOFTWARE ENGINEER · FULL STACK DEVELOPER · DEVOPS

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Skills

Programming Languages: Java, Python, JavaScript, HTML, CSS, SQL, C, C++, Dart
Certifications: Core Java, C, C++
Databases: SQL: mySQL, Amazon RDS; **NoSQL:** MongoDB, Amazon DynamoDB
Servers: Apache HTTP, Apache Tomcat, Node.js, NGINX
Cloud Services: AWS [S3, EC2, API Gateway, Lambda, Route 53, IAM, VPC, NAT, NACL, ELB, CloudFront, CloudWatch], Heroku, Netlify
Components & Frameworks: React, Angular, Spring MVC, Spring boot, Microservices, Jenkins, RESTful Web Services, Docker, Kubernetes, Git, Spring Security, SonarQube, REST api, Bootstrap, Mockito, Junit, JPA Hibernate, JQWidgets, PMD, OWSAP ZAP, OpenSSL, TensorFlow, Laravel

Work Experience

Mybook   *Fairfax, VA*
SOFTWARE DEVELOPER INTERN   *May. 2019 - Aug. 2019*

- Designed and developed MyBook's product page.
- Transformed business requirements and designed high level architecture specifications using UML and sequence diagram.
- Built Mybook's product page microservice (Full-Stack) utilizing spring framework, java, js, bootstrap, thymeleaf, HTML
- Worked extensively with spring mvc framework and rest api for integration with other Mybook's java microservice components

Canvera   *Chennai, India*
MOBILE APP DEVELOPER INTERN   *Oct. 2017 - Oct. 2017*

- Designed and built prototype UI components for Canvera iOS application.
- Gained knowledge across all phases of mobile app development (design, development, testing and deployment).

Projects

ScrummyBears E-commerce Software (DevOps Focused)   *GitHub Link*

MAY. 2020

- Our project's objective was to build an integrated software system using the latest in agile development tech.
- Developed Order functional microservice with Spring MVC, Java 1.8 for the back-end and HTML for the Front-end along with Thymeleaf.
- Used MongoDB (MongoDB Atlas) as this microservices's database to perform CRUD operations.
- Developed REST API end points to communicate with other services.

Go Game   *GitHub Link*

MAY. 2019

- As part of a team, developed a board game that can be played securely over a TCP/IP network.
- Developed using JSF Spring Framework, Spring Security for back-end and HTML for front-end along mySQL for storing game moves and user details which are hashed. Our solution also involved user authentication, data encryption using SSL/TSL protocol

FlappyPotter (Ft.FlappyBird)   *GitHub Link*

JULY. 2020

- Python Game Development, a modified version of Flappy Bird, built using PyGame, with customized graphics.

Flixder   *GitHub Link*

JUNE. 2020

- A python flask app that generates random netflix movie and show recommendations, with it's details listed for each title, that a user can swipe through and watch with the click of a button.
- Utilized API's, Kaggle Movie Data set and Open Movie Database to fetch netflix titles and descriptions, posters, ratings respectively.

Education

Sri Krishna College of Engineering and Technology   *Coimbatore, India*
B.E. IN COMPUTER SCIENCE AND ENGINEERING   *Aug. 2014 - Apr. 2018*

University of North America   *Fairfax, USA*
M.S. IN COMPUTER SCIENCE   *Sep. 2020 - Ongoing*