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Shayan Khorsandi

Software Engineer

Portfolio: abradat.github.io/portfolio
github.com/abradat
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Software Engineer with 3+ years of experience in full-stack development of cloud-native applications based on microservices architecture. Always eager to embrace new challenges and rapidly learn emerging technologies.

EXPERIENCE

Agile Developer Intern

Sep 2022 — April 2023

SAP

Vancouver, BC

- Implemented REST APIs for automating internal jobs using Spring Boot in the feature flagging service.
- Implemented Jenkins pipelines for automating instance backups, managing other services' data, and compiling responses from instances across all regions, reducing 2+ days of manual work to under 15 minutes.
- Implemented unit tests using JUnit, Mockito, PowerMock, and Postman collections for automated API testing.
- Implemented Jasmine unit tests for validating the submitted data from other services to feature flagging service.
- Developed a Slack bot Integration with the feature flagging service for users to toggle features through Slack.
- Produced 10+ software documents, including elaborating on changes, deployment guidelines, and Slack integration.

Application Developer

Feb 2022 — May 2022

Dyne Technologies Inc.

Vancouver, BC

- Mobile application development using Flutter framework for iOS and Android platforms.
- Redesigned the whole routing and dependency management of the mobile app to reduce memory usage.
- Redesigned and standardized REST API endpoints on the server side for increasing performance and readability.

Software Engineer

May 2018 — Aug 2021

Informatics Services Corporation (ISC)

Tehran, Iran

- Developed backend services through Spring Boot and Spring frameworks based on microservices architecture.
- Implemented microservices patterns, including Saga Transaction pattern, API Gateway using Spring Cloud Gateway and Zuul, securing services with Keycloak based on OpenID Connect, messaging/streaming using Apache Kafka and IBM MQ, and distributed log tracing using Zipkin and ELK stack.
- Developed a Socket.IO client based on Spring Boot for communication between customers and central banks.
- Developed dashboard monitoring and management applications via Angular framework. Implemented a terminal for real-time communication between an Angular application and server's command line using WebSocket and Xterm.js.
- Containerized applications using Docker and used Jenkins for CI/CD.

SKILLS

Languages	Proficient in: Java, Python, C/C++, TypeScript, Groovy, Dart
Frameworks	Familiar with: JavaScript, PHP, C#, Go, Bash
Testing Frameworks	Spring Boot, Spring, Angular, Node.js, Flutter
DevOps	JUnit, Mockito, Jasmine
Tools	Docker, Kubernetes, Jenkins
Database	Git, SVN, Maven, Apache Kafka, IBM MQ, ELK Stack, Redis
Cloud Platforms	Oracle, MySQL, PostgreSQL, MongoDB
	AWS

RELEVANT/PERSONAL PROJECTS

Central Securities Depository (CSD) V2 — [Documentation](#)

May 2020 — Aug 2021

Implemented based on microservices architecture with completely redesigned backend services and dashboard.

Iranian Instant Payment (IIP) — [Documentation](#)

Aug 2019 — Aug 2021

IIP is the Iranian's latest inter-bank payment system. Implemented based on the microservices architecture.

Reddit Analysis — [Source Code](#) | [Documentation](#)

Winter 2021

Application for crawling subreddit posts from Reddit website using Scrapy and analyzing them using SciPy and Stanford CoreNLP.

News Crawler — [Source Code](#) | [Documentation](#)

Fall 2020

Web application for crawling the latest news from CNN website through Selenium and latest tweets through Twitter API about PS5 console. Tweets' sentiments are extracted using Stanford CoreNLP for labeling and presentation in the Angular application.

Kernel Module — [Source Code](#) | [Documentation](#)

Fall 2019

Linux kernel module for hooking read and write system calls using ftrace and performing encrypt/decrypt actions with ROT13.

For a comprehensive list of my projects please visit my [website](#) or my [github](#).

EDUCATION

Master of Digital Media, University of British Columbia, Canada

(GPA: 4.02/4.33), Sep 2021 — April 2023

Accredited and awarded by four leading Canadian post-secondary institutions: [UBC](#), [SFU](#), [ECUAD](#), [BCIT](#).

B.Sc. Computer Engineering, Iran University of Science and Technology, Iran

(GPA: 3.72/4.0), Sep 2015 — Mar 2020