

# ASHKAN ABEDIAN

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- Ability to apply Software Design patterns to produce clean and predictable solutions (TDD)
- Created a scalable Monitoring application at Bank of America by applying software architecture principles from *Clean Architecture* by “Robert C. Martin”

**Languages:** Java, Kotlin, JavaScript, C#, SQL, HTML5, Python, Scala, Dart, R, GraphQL, VBA

**Frameworks/Libraries:** Angular2, Vue.js, Spring, Flutter, React Native, Express.js

**Tools:** Jira, Gradle, AWS, TeamCity, Jenkins, Docker, Kubernetes, Ansible, Chef, AMPS

## Professional Experience

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### Software Developer | Bank of America Merrill Lynch

Jan 2018 – May 2018

- Successfully adhered to a Scrum of Scrums development environment
- Worked towards the firm’s goal of a metric driven approach by building a Monitoring application which captured 175% more data points thus producing metrics pertaining to the overall health of the applications running in production
- Achieved a successful global deployment by utilizing Gradle and Ansible to configure the application and receiving nodes
- Produced clean code by applying XP engineering principles such as pair programming and test-driven development
- Composed end to end tests to ensure that new features met business requirements and would not compromise the integrity of the code base

### QA Analyst | SeamlessMD

Apr 2017 – Aug 2017

- Advanced the progress of meeting accessibility guidelines by building an image tagging tool using Python
- Presented usage analytics to clients by building three analytics widgets to process usage metrics
- Achieved a two-month reduction in the product implementation timeline through task automation

### Software Lead | University of Waterloo, Industry 4.0 Design Team

Apr 2017 – Present

- Lead the development of a prototype app in Android Studio to demonstrate client-server Bluetooth communication
- Oversaw recruitment and selection of the technology stack for competition’s website

## Projects

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### Monitoring Application | Java, C#, SQL, Liquibase, InfluxDB, Oracle, Grafana

Mar 2018 – Apr 2018

#### Bank of America Merrill Lynch

- Used Java to build a metrics module that captures JVM and domain specific data to produce structured aggregate metrics
- Utilized the State Pattern to build an InfluxDB module to persist time series metrics in online and offline modes
- Designed Grafana plots containing time series metrics with the goal of visualizing trends and diagnosing production issues
- Created models to generate alerts given daily metrics and historical data points captured by the metrics module
- Collaborated with a remote contractor to create a C# client in order to provide team members with insight into the health of applications running in production

### Pocket CPM | Kotlin, Java, Dagger 2, SQLite

Aug 2017 – Sept 2018

- Developed a native Android application using Java and Kotlin, that utilizes the critical path algorithm to identify critical tasks and outline potential bottlenecks with the goal of preventing time-frame issues
- Applied MVVM architecture by using AAC and Dagger 2 to create a responsive UI and a clean codebase

### CI/CD Proof of Concept | Chef, Ruby, AWS, Docker, Jenkins

Apr 2018 – May 2018

- Created a Chef recipe to configure a variable number of nodes to have both Jira and Jenkins deployed inside a Docker container, giving Jenkins the ability to push/pull Docker images for continuous delivery