Kush Pandya
Software Developer

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SUMMARY

- Around **3 years** of **experience** as a **Software Development** and also specialized in **Android development** with a comprehensive understanding of diverse **technologies** and **methodologies**. Expertise encompassed **Java, Kotlin, Python**, along with key web technologies such as **HTML, CSS, JavaScript and React JS.** Excelled in utilizing **frameworks** like **Spring Boot and Hibernate**, and demonstrated proficiency in **database management** with **MySQL and Snowflake**. **Android development skills** were extensive, covering **Google Maps API, WebView, and vital Android SDK components**. Adept in **architectural patterns** like **MVVM, MVC, and MVP**, and skilled with tools **including Android Studio, Firebase,** and **Unity 3D**. Held solid **testing experience** with **Junit** and **Mockito**, and acquired knowledge in **AWS cloud services**. Development **approach integrated SDLC, Agile, and Waterfall methodologies**, strongly focusing on **Test-Driven Development (TDD)**, ensuring the delivery of **high-quality software solutions**.

EDUCATION

Master of Science in Computer Science, Colorado State University   **May 2023**

Bachelor of Engineering in Computer Engineering, Alpha College of Engineering and Technology   **May 2019**

SKILLS

Languages:	**Java, Kotlin, Python, C#**
Web Technologies:	**HTML, CSS, JavaScript, AJAX, JSON, JQuery, XML**
Frameworks:	**React JS, Spring Boot, Hibernate**
Databases:	**MySQL, Snowflake, JDBC**
Methodologies:	**SDLC, Agile, Waterfall, TDD**
Android Expertise:	SMS, Content Provider, Google Maps, API, WebView, Android SDK, Components (Location, Bluetooth, Audio Services, Camera, Memory Management, Maps)
Architectural Patterns:	MVVM, MVC, MVP
Development & other Tools:	Android Studio, Firebase, Google Colab, Unity 3D, Git
Testing:	**JUnit, Mockito, Espresso**
Cloud Technologies:	**AWS (EC2, S3, Lambda and EBS)**

PROFESSIONAL EXPERIENCE

Software Developer |Uber | CO   **Feb 2023 - Current**

- Spearheaded the development of sophisticated and responsive user interfaces using HTML, CSS, and JavaScript, enhancing user experience and interface design, resulting in a 30% increase in user engagement and a 20% decrease in bounce rates.
- Spearheaded the integration of Java-based systems with databases and third-party APIs.
- Employed advanced JDBC features for batch processing, stored procedures, and transaction management, enhancing processing efficiency by 35% and reducing database load by 20%.
- Utilized JUnit to conduct comprehensive testing, ensuring applications were bug-free and performed optimally, and leading to a 40% reduction in post-deployment issues.
- Reduced memory consumption in the Spring Boot application by 60% through memory profiling and optimization techniques.
- Developed and maintained RESTful APIs for a customer relationship management (CRM) application, resulting in a 30% reduction in response times.
- Championed initiatives to optimize Hibernate for object-relational mapping, attaining a 30% reduction in query response times and a 20% improvement in application performance.
- Executed seamless integration of RESTful APIs and diverse third-party libraries, optimizing application functionality; efficiently managed MySQL databases to ensure secure and swift data access, enhancing overall application performance.
- Streamlined the sequential phases of the Waterfall methodology, achieving a 20% reduction in time-to-market for software products and a 15% decrease in phase-overlap issues.

Software Developer |Stage | India   **Feb 2018 – Dec 2019**

- Developed and maintained scalable, high-quality Kotlin-based Android applications, focusing on intuitive user interfaces and reliable functionality.
- Directed projects to integrate XML data with various systems and databases, achieving a 20% improvement in data exchange efficiency and a 15% reduction in integration-related errors.
- Pioneered the architecture and development of scalable, high-performance web applications using React JS, delivering projects with a 30% faster time-to-market and a 20% increase in application performance.
- Implemented architectural patterns like MVVM, MVC, and MVP to enhance application design and performance, achieving a 25% improvement in application responsiveness and scalability.
- Utilized Firebase to enhance real-time data synchronization and user authentication in mobile applications, significantly boosting app responsiveness and security.
- Masterfully applied Android SDK and tools like Android Studio to create and enhance mobile applications, implementing features like SMS, Google Maps, WebView, and efficiently managing components such as Bluetooth and Camera, achieving a 15% increase in app downloads and user retention.
- Explored platforms like Google Colab and Unity 3D to integrate AI and machine learning features into applications, resulting in a 20% increase in user engagement and satisfaction.
- Facilitated continuous integration and deployment using Git, ensuring seamless and error-free updates, and accomplishing a 50% reduction in deployment times with zero downtime.

PROJECTS

Fashion E-commerce Web Application (React JS, Firebase, Visual Studio Code)   **Source Code**
- Developed and deployed a highly available E-commerce web application for online shopping men's and women's wear etc.
- Implemented user-authenticated sign-in and sign-up processes, add-to-cart functionality, and Stripe API payment setup.

Movie Recommendation System (Python, PySpark, Google Colab)   **Source Code**
- By using Collaborative Filtering based on reviews and movie preferences, a movie recommendation system was updated.
- Achieved RMSE of 0.91 by using Spark with PySpark API and memory-based method on the MovieLens data set.

Augmented Furniture (Java, XML, ARCore, Firebase, Android Studio)   **Source Code**
- Developed an interior design application using Augmented Reality to predict how furniture will look before purchasing it.
- Implemented 3D replicas of the furniture in the user's house or workplace using the augmented reality library ARCore.

Parental Control/Monitor Application (Kotlin, XML, Android Studio)
- Developed a parental control/monitor mobile application to monitor child's activities on a particular device.
- Applications can track and limit how much time they spend using smartphones or age-inappropriate sites and apps.

Voting Application (Java, XML, MySQL, Android Studio)
- Designed and developed a highly consistent online voting application with fingerprint verification to authenticate the user.
- Integrated fingerprint hardware device to make the application more resilient across all android based smart devices.