Dhaval Patel

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Technical Skills

Programming Languages: Kotlin, Java, Python, Dart , C, C++, Bash

Frontend Frameworks: Android SDK, Flutter, ReactJs

Web Technologies: HTML, CSS, JavaScript, Node.Js

Databases: SQL, MySQL, SQLite, MongoDB, PostgreSql, Google CloudSql, Redis

Software Tools: Git, MS Office, Jira, IntelliJ, VSCode, Emacs

Cloud Technologies: Google Cloud Platform (GCP), Firebase Services, CloudFlare

Backend Frameworks: Django, Express

Big Data Frameworks: Apache Kafka, Apache Spark

Virtualization: Docker, Docker Compose

Operating Systems: Windows, Linux (Debian, Arch, Fedora)

Education

Master of Science: Big Data Analytics - Trent University - Peterborough ON, Sept 2021 - Dec 2022

Bachelor of Engineering: Computer Engineering - Gujarat Technological University - Gujarat India, July 2016 - Aug 2020

Professional Experience

Software Developer   **Sept 2020 - Aug 2021**

Vishwam Cable Networks - Ahmedabad, India

- Worked as a full-time software developer developing mobile applications and web portal for customer support.
- Improved app workflow with better design and integration with the native platform.
- Assured app reliability by performing unit testing for features implementation.
- Improved authentication flow and notification services using GCP's firebase services and improved customer reach by 15%.
- Coordinated with the back-end team Implemented Google Cloud Platform services such as Firebase Authentication and Cloud Firestore on the client side.
- Implemented unit tests ensuring 100% code coverage and reduced critical bug rate by 60%.
- Participated in frequent code reviews providing suggestions for code quality, optimization and performance, resulting in a 20% increase in application speed and consistent testing suite.
- Initiated migration of mobile applications from Android SDK to Flutter and extended the reach of the application by 20% using iOS and Web Implementation.
- Adhered to agile methodology and coordinated with the Product owner about the responsibilities as well as expectations of the product.

Software Developer Internship   **Mar 2020 - Aug 2020**

Vishwam Cable Networks - Ahmedabad, India

- Worked as an intern, assisting developing a front-end application using Android SDK, which provided consumers authentication and trouble-shooting services for Television and Internet.
- Implemented unit tests ensuring 100% code coverage and reduced critical bug rate by 60%.
- Worked on Research proposal for movement of the application to Flutter framework for better outreach and coordinated with the project manager about the requirements and responsibilities.

Academic Projects

Sentiment Analysis on Customer Reviews
- Performed sentiment analysis on customer reviews of two competitive products over a period of span to establish the impact of performance of one product on customer's sentiment on other products.
- Developed an AI rating system based on the textual content and compared it to star rating of the products, and tested several hypotheses and backed them with visualizations.
- Reviewed more than 20 peer reviewed research papers on product review analysis and produced a substantial literature review on product review analysis.
- Proposed literature gaps found in the state of art techniques used to understand product reviews and feedback cycles.

Technologies: Python, Natural Language Processing

IntelliRoute
- Built a dashboard application as well as client application using Flutter SDK for intra-campus transport system
- Used google cloud platform services such as authentication and realtime database.
- Backed the dashboard using people flow analysis algorithms over the whole campus and finding best routes for optimal transport infrastructure implementation.

Technologies: Android SDK, Flutter SDK, Kotlin, Google Cloud Platform, Node.js, Firebase Database, Python

OfferHunt
- Developed an android application using Flutter cross-platform SDK and web portal using ReactJs which provided a platform to local shop owners to publish advertisements and offers which then can be consumed by a large consumer base in a nearby area.

Technologies: Android SDK, Flutter SDK, Kotlin, Google Cloud Platform, ReactJs, Node.js, Firebase Database