Dev Bhartra

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Education

Northeastern University - Khoury College of Computer Science   **September 2022 – Present**
Master of Science in Computer Science, 4.0/4.0 GPA   *Boston, USA*
- Coursework: Programming Design (Java), Database Management Systems, Mobile App Development.

PES University   **August 2017 – July 2021**
Bachelor of Technology in Computer Science and Engineering, 8.24 CGPA   *Bangalore*
- Research intern at the Centre for Cloud Computing and Big Data; Worked with Ph.D. candidates & professors.
- Published IEEE research: Agricultural yield prediction using machine learning; 1st place at ISCMI 21, Egypt. LINK

Work Experience

Blinkit at Zomato Ltd.   **July 2021 – July 2022**
Data Analyst & Software Developer   *Bangalore*

- Developed efficient services with SQL, Python & Apache Airflow to automate discounts on stagnant inventory.
- Decreased loss due to expired wastage by 25% after deploying the revamped discounting pipeline.
- Programmed the Python and Java logistics code leading to 15% increase in space utilization in bucketing.
- Automated a script utilizing AWS RedShift, Airflow & Cron to report overall productivity of employees.
- Delivered a 13% increase in employee productivity within a month of deployment of the revamped codebase.
- Guided a team of 4 to incorporate code reuse, design principles, and conducted code reviews for multiple projects.

Rakuten India Pvt. Ltd.   **February 2021 – July 2021**
Software Engineering Intern   *Bangalore*

- Led a team of 3 for the modernization of RPay payments with improved data flow & dead code removal using Dart.
- Rebuilt the app from scratch while leveraging the Flutter framework which was eventually used in production.
- Built modular REST APIs in Python with Flask, consisting of reusable components, reducing code duplication.

Qwickbit Technologies Pvt. Ltd.   **June 2019 – July 2019**
Software Engineering Intern   *Bangalore*

- Designed and developed a security focused palm print recognition prototype with Python, OpenCV and Android.
- Deployed the prototype on Android devices as well as a web client with intercommunication capabilities.
- Increased accuracy with EDCC by 35% compared to the legacy fingerprint based software.

Projects

Realtime Secure Cross Platform Chat | *Android, Firebase, React, JAVA*   **Spring 2023**
- Developed a secure chat application for cross platform devices using Java and Firebase.
- Implemented real-time messaging, image sharing, user authentication and data encryption.
- Designed and developed the user interface using Android Studio with a modern and user-friendly layout.
- Used Firebase Authentication for user login and registration, and Firestore for storing and retrieving chat messages.
- Incorporated MVVM architecture & Material Design and optimized the application for performance and scalability.
- Actively building responsive web client with ReactJS and Firebase integration.

Multi Stock Portfolio Manager | *JAVA, Swing*   **Fall 2022**
- Built a platform independent application to simulate trading on the stock market, supporting 12,000 tickers.
- Implemented MVC, Command and Facade design in Java to improve the efficiency, modularity and reusability.
- Presented 9 operations allowing simultaneous management of multiple portfolios and investment strategies.
- Performed unit testing in JUnit & Mock Models like Mockito with extensive code coverage.

Carpool Finding Web App | *Python, Docker, MongoDB, AWS*   **Spring 2020**
- Collaborated with 2 students to build a cloud based micro-service DBaaS to facilitate bookings of a shared cab service.
- Utilized RabbitMQ as the message broker for the database orchestrator, docker, and zookeeper for cluster coordination.
- Controlled traffic to the AWS EC2 instances using an elastic load balancer, enabling reliability in increased work loads.

Technical Skills

Languages: Python, Java, SQL, Dart, HTML, JavaScript, CSS.
Frameworks: Android, AWS, Firebase, Flask, Flutter, NodeJS, ExpressJS, Dockers, Containers, Pytorch, Git.
Databases: MySQL, Firestore, Firebase storage, Amazon Redshift, AWS PrestoDB, MongoDB.