Deep Rajesh Furiya

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EDUCATION

Master of Science in Computer Science | The University of North Carolina at Charlotte **(GPA:3.8/4.0)** **August 2022 - May 2024**
Coursework: Data Structures and Algorithms, Database Systems, Android app development, Network-Based Development, Machine Learning

Bachelor of Engineering in Computer Engineering | University of Mumbai **(CGPI:7.9/10)** **August 2017 - June 2021**
Coursework: Web development, Java 8 and Python programming, Software Engineering, Object-oriented programming, Algorithm analysis

TECHNICAL SKILLS

- **Programming Languages**: Java, SQL, Python, NOSQL, Kotlin, JavaScript, Apex
- **Front-end Development**: HTML, CSS, React.JS, Node.JS, Bootstrap
- **Back-end & Databases**: Spring Boot, REST API, SOAP API, Firebase, MongoDB, MySQL, XML
- **Android**: MVVM, Jetpack Compose, Retrofit, Dagger Hilt, Room, OkHTTP, Google Analytics, Picasso
- **Other Tools and Services**: Docker, GitHub, Postman, Android Studio

WORK EXPERIENCE

Full Stack Developer | Top 10 Mobiles **August 2021 - July 2022**
Skills: HTML, BootStrap, JavaScript, JQuery, CSS, PHP, NodeJS, REST API, SQL, Databases, Google Services, Enterprise Resource Planning

- Developed web-based **ERP software** using HTML, NodeJS, and SQL resulted in a 40% rise in user satisfaction
- Integrated **Role-based access control** (RBAC) for enhanced security and user access management
- Utilized **geolocation features** and JavaScript **image compression** to enhance system security and reduce storage space by 20%
- Implemented multiple **Excel** files uploading using PHPExcel and storing the data in a backend database linked to other modules
- Automated customer notifications via API integrations, resulting in a **25% reduction** in response time
- Streamlined billing, vendor management, and inventory modules for a **30% boost** in overall efficiency

ASSISTANTSHIPS

Graduate Teaching Assistant | University of North Carolina
Skills: Java, Programming, Android Studio, Communication, Presentation, Grading, Course structuring, Planning **January 2023 - Present**

- Provided mentorship and guidance to 60 students, increasing average project scores by 15% through targeted support strategies.
- Analyzed student data, identified common challenges, and crafted resources, resulting in a 20% reduction in project completion time

Research Assistant | University of South Carolina **June 2023 - August 2023**
Skills: Propel, PHP, MySQL, Apache, Postman, Security, Database, GitHub, Docker, Back end, Collaboration

- Created RESTful APIs in Propel using Object-Relational Mapping, optimizing communication between the mobile app and MySQL database and reducing data latency by 30%
- Formulated backend APIs for PHP server, resulting in a 25% improvement in data retrieval efficiency
- Managed and maintained a SQL database, ensuring seamless data reading and writing for the application reducing response time by 25%

ACADEMIC PROJECTS

Daily News Mobile Application
Skills: Android, Kotlin, Retrofit, Okhttp, GSON, Firebase, NoSQL

- Engineered a Kotlin Android app for city news, resulting in a 20% uptick in user interaction through the implementation of Google's Material Design and JetPack Navigation
- Conducted multiple API calls with Retrofit-Kotlin, Coroutines, Okhttp, and GSON parsing. Enhanced app reliability, minimizing crashes by 15%, through efficient use of LiveData and SharedPreferences

Messaging Mobile Application
Skills: Android, Java, Firebase, Authentication, NoSQL

- Created a secure messaging app with Google Authentication and Firebase Storage, resulting in a 30% improvement in user data security
- Executed RESTful API calls in an Async task, achieving a 20% faster data retrieval process, and optimized data processing speed by 25% through JSON parsing

Trading Web App
Skills: HTML, CSS, JavaScript, NodeJS, ExpressJS, MongoDB

- Developed a mobile trading application leveraging HTML, CSS, Bootstrap, JavaScript for a user-friendly frontend
- Implemented backend with MVC architecture, Express.js, Node.js, and MongoDB, resulting in a 30% acceleration in processing speed

Fake Tweet Detection using Machine Learning
Skills: HTML, CSS, JavaScript, Python, Django, PyScript, Twitter API

- Designed a web application for detecting fake tweets, leveraging machine learning technologies and integrated the Twitter API, Naive Bayes Classifier, and Logistic Regression, achieving a 92% accuracy rate for precise predictions
- Integrated the website seamlessly using Django and PyScript, establishing a user-friendly interface that contributed to a 30% increase in user engagement

Path Following Robot
Skills: C++, Arduino, Sensors

- Successfully devised a working model of a robot from scratch with different sensor installations and connected all of them with the main circuit board, Arduino using C++
- Coded to drive itself by tracing paths with 97% accuracy and also taking commands through Bluetooth