Deep Rajesh Furiya

dfuriya@uncc.edu | (980) 361-3363
https://www.linkedin.com/in/deepfuriya | https://github.com/deepfuriya | https://www.deepfuriya.com

EDUCATION

Master of Science in Computer Science
The University of North Carolina at Charlotte (GPA:3.8/4.0) **Aug 2022 - May 2024**

Bachelor of Engineering in Computer Science & Engineering
Shah and Anchor Kutchhi Engineering College, Mumbai University **Aug 2017 - July 2021**

TECHNICAL SKILLS

Languages:	Kotlin, Java, PHP, JavaScript, SQL
Mobile App Development:	AndroidX, MVC/MVVM, Fragments, XML, GSON, Okhttp , Retrofit, Coroutines, LiveData, Picasso, Firebase, JetPack Navigation
Web Development:	HTML5, ReactJS, NodeJS, Bootstrap, Propel, CSS, jQuery, AJAX, JSON
Tools:	GIT, SQL Server, Android Studio, Google Analytics, MS Office, Adobe Photoshop
Databases:	MySQL, SQLite, Apache, MongoDB, Firebase, Oracle, Cloud, AWS
Operating Systems:	Windows, IOS, Linux

WORK EXPERIENCE

Graduate Teaching Assistant | University of North Carolina **Jan 2023 - Present**
- Mentored and provided personalized guidance to 54 students in Android Mobile Application Development course.
- Achieved a 15% increase in average project scores by implementing 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 - Aug 2023**
- Created RESTful APIs in Propel using Object-Relational Mapping, optimizing communication between the app and MySQL database and reducing data latency by 30%.
- Formulated backend scripts 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.

Full Stack Developer | Top 10 Mobiles **Aug 2021 - July 2022**
- Designed and implemented web-based ERP software with HTML, Bootstrap, PHP, NodeJS, and SQL resulted in a 40% rise in user satisfaction.
- Integrated Role-based access control (RBAC) for enhanced security and user access management.
- Enhanced user access restriction through geolocation features, ensuring a secure system, and applied image compression using JavaScript, reducing storage space by 20%.
- Automated customer notifications through API integrations, achieving a 25% decrease in response time, while streamlining billing, vendor management, and inventory modules for a 30% boost in overall efficiency.

ACADEMIC PROJECTS

Daily News Mobile Application | *Android, Kotlin, Firebase*
- 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 | *Android, Java, Firebase*
- 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 | *NodeJS, ExpressJS, MongoDB*
- Devised a content sharing web app using Express.js, Node.js, JavaScript, and MongoDB, realized a 40% increase in user engagement.
- Implemented MVC design pattern with EJS template pages, routes, and JavaScript data objects, leading to a 30% improvement in code maintainability and scalability.

Fake Tweet Detection using Machine Learning | Python, Django, PyScript, Twitter API
- Designed a web application for detecting fake tweets, leveraging machine learning technologies to significantly enhance information credibility and integrated the Twitter API, Naive Bayes Classifier, and Logistic Regression, achieving a 92% accuracy rate for precise predictions.
- Connected the website seamlessly with backend machine learning algorithms using Django and PyScript, establishing a user-friendly interface, achieved a 30% increase in user engagement through easy input of tweet links and retrieval of accurate results.

Path Following Robot | *Arduino, C++*
- 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.

PUBLICATION

- **Fake Tweet Detection using Machine Learning Algorithms**, Authored and Published the paper on Fake Tweet Detection which provides real time detection of fake news on twitter, at IEEE SmartGen 2021 *Published Research: https://ieeexplore.ieee.org/document/9645809*