

DEEPAKUMAR PRAJESHBHAI PRAJAPATI

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EDUCATION

Khoury College of Computer Sciences - Northeastern University , Boston, USA	Jan 2023 - Dec 2024
Master of Science in Computer Science	GPA: 4.0/4.0
Courses: Programming Design Paradigm, Algorithms, Introduction to Data Management and Processing.	
Devang Patel Institute of Advance Technology and Research - CHARUSAT , Gujarat, India	Jun 2018 - May 2022
Bachelor of Technology in Computer Science and Engineering	CGPA: 8.22/10.0
Courses: Software Engineering, Analysis of Algorithm, Operating Systems, Data Structures, Cloud Computing, Database Management System.	

TECHNICAL SKILLS

Fundamental Concepts:	Data Structures and Algorithms, Design Patterns, OOP Concepts, REST APIs
Programming Languages:	Java, R, Python, JavaScript
Databases:	MySQL, MongoDB, Firebase
Web technologies:	React, HTML5, CSS, Bootstrap
Miscellaneous:	React Native, Spring Boot, Spring Security, Firebase, Git, Adobe (XD), Postman

WORK EXPERIENCE

Northeastern University , Boston, MA	Sep 2023 - Dec 2023
Graduate Teaching Assistant <i>Programming with Data, Python</i>	
<ul style="list-style-type: none">Worked together with distinguished Prof. Silvio Amir Alves Moreira and Byron Wallace to create interactive assignments and evaluation criteria.Guiding a class of over 500 students in building and troubleshooting solutions with Programming with Data (DS 2000).Held office hour discussions, conducted thorough grading, and reviewed code, providing valuable feedback to support student growth.	
Inficube Technolabs Private Limited , Gujarat, India	Dec 2021 - Apr 2022
React Native Developer Intern <i>React Native</i>	
<ul style="list-style-type: none">Designed and implemented visually appealing user interfaces with engaging animations using React Native.Integrated APIs to streamline data retrieval and display processes, enhancing the efficiency and functionality of the app.Collaborated with cross-functional teams to ensure seamless integration of UI design and functionality.Actively participated in code reviews, resolving issues promptly and contributing to timely project delivery.Achieved a 30% reduction in user interface loading time through optimization techniques.	
Zenerva Software LLP , Gujarat, India	Jun 2021 - Aug 2021
Web Developer Intern <i>HTML, CSS, JavaScript</i>	
<ul style="list-style-type: none">Enhanced the user interface of an existing website by updating and improving HTML, CSS, and JavaScript elements.Implemented new backend features and functionality using PHP, enhancing the website's overall performance and user experience.Effectively utilized Git for seamless codebase management, tracking changes, and ensuring smooth collaboration with the team.	

PROJECTS

Image Manipulation & Enhancement <i>Java, Swing, Object-Oriented Design</i>	Mar 2021 - Apr 2023
<ul style="list-style-type: none">Crafted a GUI-based image editor in JavaFX, implementing a blend of MVC architecture, design patterns, and adherence to SOLID principles.Tested the system extensively using Test Driven Development Methodology to ensure intended behavior with >80% test coverage.Ensured stable performance by handling and resolving over 94% error cases.	
Analysis and Modeling Agriculture Data <i>Python, R</i>	Mar 2021 - Apr 2023
<ul style="list-style-type: none">Conducted data cleaning and preprocessing to ensure accuracy and completeness, followed by exploratory data analysis to uncover insights.Developed predictive models using Linear Regression, XGBoost, and Random Forests Regression to forecast crop production and yields. Incorporated variables such as climate, soil type, and irrigation for accurate predictions.Identified key factors influencing agricultural productivity and provided actionable recommendations for improvement.Demonstrated proficiency in statistical analysis and machine learning techniques, delivering reliable models with high accuracy.	
Variya Association Application <i>React Native, Spring Boot, MySQL, Postman</i>	Dec 2020 - Apr 2021
<ul style="list-style-type: none">Developed a Cross-platform application to ensure easy access for all the members, regardless of their device.Implemented robust authentication mechanisms to ensure secure communication within the platform, allowing for seamless account creation and login processes.Designed the application with features such as community member profiles, event details, and a photo gallery to enhance communication and engagement among community members.	
Inventory Management System <i>Java, XML, Android Studio, Firebase</i>	Sep 2020 - Dec 2020
<ul style="list-style-type: none">Spearheaded the end-to-end development of an advanced inventory management system using Android Studio, Java, and Firebase.Created an intuitive and user-friendly front-end interface using XML to facilitate efficient viewing and updating of warehouse goods, employee details, and comprehensive buying/selling history.Integrated features that enabled real-time updates, ensuring accurate inventory tracking and streamlined business operations.	
Quizwise <i>PHP, HTML, CSS, Bootstrap, MySQL</i>	Jun 2020 - Aug 2020
<ul style="list-style-type: none">Led development of Quizwise, an interactive platform enabling students to take quizzes and teachers to create them.Implemented real-time question rendering using PHP and MySQL, resulting in a notable 30% increase in user engagement.Recognized for efficient project management, delivering the platform ahead of schedule and highlighting strong organizational proficiency.	

INTERESTS/ACTIVITIES

- TCS ION cleared with an A grade.
- Completed AWS Builders Online Series.
- Contributed as a member and event organizer at Computer Society of India.