DEEPKUMAR PRAJESHBHAI PRAJAPATI

Boston, MA, 02446 | +1 (516) 201-9299 | prajapati.de@northeastern.edu | LinkedIn | Portfolio

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 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, Git, Adobe (XD), Postman

WORK EXPERIENCE

Northeastern University, Boston, MA — Sep 2023 - Dec 2023
Graduate Teaching Assistant | *Programming with Data, Python*
- Collaborated with distinguished Prof. Silvio Amir Alves Moreira and Byron Wallace to develop 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 | *React Native*
- Designed and executed visually appealing user interfaces with engaging animations using React Native.
- Integrated APIs to streamline data retrieval and display processes, boosting the efficiency and functionality of applications.
- Collaborated with cross-functional teams to maintain seamless integration of UI design and functionality.
- Managed code reviews, swiftly resolving issues and making significant contributions to ensure on-time 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 | *HTML, CSS, JavaScript, PHP*
- Enhanced user interface of an existing website by updating and improving HTML, CSS, and JavaScript elements.
- Executed new backend features and functionality, improving website's overall performance and user experience.
- Skillfully harnessed Git to streamline codebase management, meticulously track changes, and maintain seamless collaboration within the team.

PROJECTS

Image Manipulation & Enhancement | *Java, Swing, Object-Oriented Design* — Mar 2023 - Apr 2023
- Crafted a GUI-based image editor in JavaFX, accomplishing a blend of MVC architecture, design patterns, and adherence to SOLID principles.
- Tested the system extensively leveraging Test Driven Development Methodology to ensure intended behavior with >80% test coverage.
- Assured stable performance by handling and resolving over 94% error cases.

Analysis and Modeling Agriculture Data | *Python, R* — Mar 2023 - Apr 2023
- Conducted data cleaning and preprocessing to assure 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 | *React Native, Spring Boot, MySQL, Postman* — Dec 2020 - Apr 2021
- Developed a robust Cross-platform application, catering to the diverse needs of a thriving community of over 5000 members.
- Orchestrated the implementation of highly secure authentication mechanisms, ensuring seamless communication within platform. This facilitated not only easy account creation and login processes but also bolstered overall user trust.
- Pioneered the design of an application, integrating dynamic features such as comprehensive community member profiles, event details, and an engaging photo gallery. These enhancements significantly amplified communication and interaction across the expansive community network.

Inventory Management System | *Java, XML, Android Studio, Firebase* — Sep 2020 - Dec 2020
- Spearheaded an end-to-end development of an advanced inventory management system using Android Studio, Java, and Firebase.
- Build 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 | *PHP, HTML, CSS, Bootstrap, MySQL* — Jun 2020 - Aug 2020
- Led development of Quizwise, an interactive platform enabling students to take quizzes and teachers to devise quizzes.
- Performed real-time question rendering using PHP and MySQL, resulting in a notable 30% increase in user engagement.
- Recognized for efficient project management, delivering platform ahead of schedule and highlighting strong organizational proficiency.

INTERESTS/ACTIVITIES
- TCS ION cleared with an A grade.
- Completed AWS Builders Online Series.
- Organized and facilitated events as a dedicated member of the Computer Society of India.