

DEEPAKUMAR 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 GPA: 3.8 / 4.0
Courses: Software Engineering, Analysis of Algorithms, Operating Systems, Data Structures, Cloud Computing, Database Management System.

TECHNICAL SKILLS

Programming Languages: Java, R, Python, C++, JavaScript, PHP, C, C#
Fundamental Concepts: Data Structures and Algorithms, Design Patterns, OOP Concepts, RESTful APIs
Databases: MySQL, PostgreSQL, MongoDB, Firebase, CouchDB, Elasticsearch
Frameworks: React, React Native, Spring Boot, Spring Security, Node, jQuery, Bootstrap, .NET, TypeScript
Miscellaneous: HTML5, CSS, Git, AWS (EC2), Adobe (XD), Postman, Android Studio, VS Code, IntelliJ, RStudio

WORK EXPERIENCE

Northeastern University, Boston, MA Sep 2023 - Dec 2023
Graduate Teaching Assistant | *Programming with Data, Python, Spyder*

- Collaborating with distinguished Profs. *Silvio Amir* 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).
- Holding office hours, conducting thorough grading and reviewing code, providing valuable feedback to support student growth.

Inficube Technolabs Private Limited, Gujarat, India Apr 2022 - Nov 2022
Software Engineer | *React Native, Java, Spring Boot, RESTAPI*

- Maintained cross-platform mobile applications with React Native, achieving a user base growth of 40% within six months.
- Optimized application performance through the strategic use of Spring Transaction management and database tuning, enhancing the user experience and reducing server load. Also, implemented JWT Token authentication to enhance the security of the system.

Software Engineer Intern | *React Native, JavaScript, Node.js* Dec 2021 - Apr 2022

- Designed and executed visually appealing user interfaces with engaging animations and seamless navigation using React Native.
- Integrated APIs to streamline data retrieval, also achieved a 30% reduction in UI loading time through optimization techniques.
- Developed OAuth2.0 and OpenID connect Authorization functionality to implement secure flow of application using Node.js.

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, JavaScript and Bootstrap elements.
- Implemented WebSocket, WebRTC and real-time chat functionalities, resulting in 20% increment in engagement.
- Collaborated within an Agile development environment to ensure streamlined project management and iterative development.

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. Assured stable performance by handling and resolving over 94% of error cases.
- Tested the system leveraging Test Driven Development Methodology to ensure intended behavior with >80% test coverage.

Analysis and Modeling Agriculture Data | *Python, R* Mar 2023 - Apr 2023

- Pioneered data preprocessing for a 60% insight boost, followed by EDA.
- Identified key drivers of agricultural productivity, boosting understanding by 35%. Offered actionable improvement compliance.
- Built precise crop yield models (89% accuracy) using Linear Regression, XGBoost, and Random Forests. Factors included climate, soil, and irrigation.

Variya Association Application | *React Native, Spring Boot, MySQL, Postman* Dec 2020 - Apr 2021

- Developed a robust Cross-platform application in React Native for thriving community of over 5000 members, integrating features such as comprehensive community member profiles, event details, and an engaging photo gallery.
- Architected a RESTful API using Spring Boot and Maven and implemented secure authentication with <2000ms response time.

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.

Quizwise | *PHP, HTML, CSS, Bootstrap, MySQL* Jun 2020 - Aug 2020

- Led development of Quizwise in local environment using XAMPP Server, which is 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.