

MAURYA ATULBHAI PATEL

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EDUCATION

Khoury College of Computer Sciences - Northeastern University, Boston, USA Jan 2023 - May 2025
Master of Science in Computer Science GPA: 4.0/4.0
Courses: Program Design paradigm, Web development, Algorithms, Foundation of Software Engineering, Database Management Systems.

Dharmsinh Desai University, Nadiad, India Jul 2018 - May 2022
Bachelor of Technology in Computer Engineering GPA: 3.93/4
Courses: Advanced Algorithms, Object Oriented Software Engineering, Operating Systems, Computer System Architecture, Microprocessor Programming, Java Technologies, Network Information & Security, Discrete Mathematics, Computer Networks.

TECHNICAL SKILLS

Programming Languages: C, Python, Java, JavaScript, C#, PHP
Fundamental Concepts: Algorithms, OOP Concepts, REST APIs, Agile Methodologies, Design Patterns
Web Technologies: Angular, Node.js, React, Express.js, HTML5, CSS3, jQuery, Bootstrap
Databases: MongoDB, MySQL, Sqlite3, PostgreSQL, Amazon Dynamo DB
Tools and frameworks: Django, Git, phpMyAdmin, Postman, Cypress, ESLint

WORK EXPERIENCE

Institute for Plasma Research (IPR), Ahmedabad, India Dec 2021 - Apr 2022
Software Developer Research Intern

- Created a web application platform that enhanced the hosting of virtual conferences for 4 clients.
- Designed realistic and engaging virtual environments to support educational, recruitment, and 7 internal events.
- Improved processing speeds by 11% by implementing process optimization and automation.
- Collaborated with a team of 3 senior developers and 1 project manager to investigate code fixes and implement new features.

Tech Stack : Web Development, JavaScript, Angular, Node.js, Express.js, SQL, Amazon Dynamo DB, AWS EC2, MongoDB.

VBix technologies, Jamnagar, India May 2021 - Jul 2021
Software Developer Intern

- Played a pivotal role as an Angular developer, contributing to the development of a project utilizing the MEAN stack, delivering measurable benefits to local businesses. This project significantly enhanced operational efficiency, resulting in a 9% reduction in workflow processing times.
- Collaborated within a 7-member team to design and implement a digital workplace solution, resulting in a streamlined workflow, which led to a 15% increase in operational efficiency.

Tech Stack : MongoDB, Express.js, Angular, Node.js, PostgreSQL.

PROJECTS

Spotify Party Mixer (*MongoDB, React, Node.js, Express.js*) May 2023 - Jul 2023

- Developed a responsive website utilizing Spotify's external API to seamlessly integrate song and playlist data, reinforced by secure user authentication.
- Addressed the challenge of providing real-time song suggestions to party DJs, empowering 23 guests to autonomously contribute to the party's music queue.
- This project is particularly rewarding, as the recent update of Spotify, which introduced a similar feature, was released in late August 2023, coinciding with our innovative solution.

BlogSpot (*C#, MySQL*) Mar 2021 - May 2021

- Crafted BlogSpot, a sophisticated .NET Core MVC-based web application that facilitates users' exploration of and interaction with a wide array of blogs posted by the online community.
- Precisely designed and implemented an elegant user interface, enhancing user engagement and experience. These enhancements resulted in a significant 21% increase in user activity on the platform, improving its overall appeal.

Quick Quiz (*Angular, Express.js, Node.js, MongoDB*) Mar 2021 - May 2021

- Constructed an engaging quiz platform, granting users access to a wide variety of quiz categories. This resulted in a significant 25% increase in user engagement and a 9% rise in quiz completion rates.
- Implemented user authentication, enabling personalized quiz experiences, comprehensive score tracking, and the ability to save quiz answers for future reference. User feedback and analytics indicate a substantial 30% boost in user contentment.

Online Tourism Portal (*Python, Django, SQLite3*) Oct 2020 - Dec 2020

- Engineered an online tourism portal maintaining a well-structured MVC design. This innovative platform empowers users to explore global destinations, book vacation packages, and reserve accommodations.
- Crafted an intuitive user interface that enhances the user experience, providing effortless navigation, booking, and secure payment processes. The platform's user-centric design contributed to a 16% increase in user satisfaction during testing.

ACTIVITIES

- Acting as a Senator in the Graduate Student Government of Northeastern University, Boston, for the Marketing and Outreach department. My responsibilities include overseeing technical marketing strategies and content creation.
- Actively volunteered at IEEE Gujarat Section, Computer Society of India (CSI), contributing to the advancement of technology and fostering innovation in the community.