

# Mayur Vijay Bhat

## Software Engineer

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### SUMMARY

Software Engineer with **2.5+ years of experience** in Full-Stack, Backend, and Cloud Engineering. Proficient in designing, developing, and deploying distributed applications at scale, pursuing a Master's in Computer Science, graduating in **May 2025**.

### EDUCATION

#### Indiana University, Bloomington, IN, USA

May 2025

Master of Science in Computer Science: **GPA: 3.85/4.0**

#### JSS Science and Technology University, India

July 2021

Bachelor of Engineering in Electronics and Communication Engineering: **CGPA: 9.11/10**

### TECHNICAL SKILLS

**Languages:** Python, C++, C#, Java, JavaScript, TypeScript

**Web Development:** React.js, Node.js, Express.js, Django, .NET, HTML5/CSS3

**Databases:** MySQL, PostgreSQL, Microsoft SQL Server, MongoDB, GraphQL

**Developer Tools:** AWS, Azure, JIRA, Git, Redux, Docker, Kubernetes, REST API, AWS Cloud Practitioner (Certification)

### WORK EXPERIENCE

#### Indiana University, Bloomington, USA

##### Graduate Teaching Assistant

August 2024 - Present

- Guiding **200+** students in Software Engineering, offering support in project design and coding practices, leading to improved project quality and increased student engagement.
- Creating and grading **20+** assignments while leading lab sessions, contributing to a 95% comprehension rate.

#### Aurigo Software Technologies, Bangalore, India

##### Software Engineer - 2

January 2023 - July 2023

- Architected and deployed a new **scalable distributed system** using C# and .NET, improving system efficiency by **30%**.
- Optimized database queries by implementing efficient indexing strategies, **reducing web application latency by 15%**.
- Redesigned and modernized a construction management platform into a **single-page React.js application** with Redux for state management, **improving load times by 30% and increasing user engagement by 20%**.
- Collaborated with cross-functional teams of **10+** senior engineers, product managers, and designers to develop and deploy new product features, ensuring a smooth interactive experience and boosting user satisfaction.

#### Aurigo Software Technologies, Bangalore, India

##### Software Engineer - 1

August 2021 - January 2023

- Enhanced document management with AWS S3 and Lambda, **reducing server load by 25% and improving document processing efficiency by 20%**.
- Revamped API architecture from SOAP-based XML API into RESTful services, **reducing response times by 15% and enhancing system scalability by 20%**.
- Conducted and led code reviews and design discussions, **enhancing code quality by 20%** and accelerating new team member onboarding through effective knowledge-sharing.
- Led the end-to-end design, development, and delivery of real-time features, from requirement analysis to post-production oversight, **reducing the development cycle time by 20%**.
- Mentored an intern by offering technical guidance, **resulting in a 15% reduction in bugs and improved code efficiency**.

#### Aurigo Software Technologies, Bangalore, India

##### Software Engineer Intern

January 2021 - August 2021

- Leveraged **Agile methodologies** to collaborate across departments, triage, and resolve **production issues**, enhancing platform stability and performance.
- Consolidated **5 SQL** queries into **2** sequential ones, reducing network latency by **5x** and accelerating data retrieval.

### PROJECTS

#### DBOperator AI | LangChain, GPT-4, FastAPI, React.js | [Github](#)

- Developed a Conversational AI Backend using LangChain, GPT-4, and FastAPI to enable natural language interactions with a PostgreSQL database by generating, executing, and translating SQL queries into structured, human-readable responses.

#### Secure bank: Online Banking System — Full Stack | Python, Django, React.js, MySQL | [Github](#)

- Developed a secure online banking system with PKI-based fund transfers, OTP-based transaction authorizations, and advanced user role management with role-based access control to ensure compliance with industry security standards.