

Ajinkya Bhamre

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EDUCATION

Master Of Science in Software Engineering, Stevens Institute of Technology May 2025

Relevant Coursework: Web Programming – I & II, DBMS, Agile Methods for Software Development.

GPA: 3.9/4.0

Achievements: Awarded the "Stellar Project Achievement Award" for exceptional performance in the software agile course.

Bachelor Of Science in Information Technology, Narsee Monjee Institute of Management Studies

Aug 2020

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Computer Networks, Intro to Cloud Computing

TECHNICAL SKILLS

Languages: Java, JavaScript (ES6/ES7), TypeScript, Python, C#, HTML, CSS

Technologies: React.js, Next.js, Node.js, Express, RESTful APIs, GraphQL, Redis, Tailwind, MongoDB, jQuery, ASP.NET MVC, PostgreSQL, MSSQL, AWS (EC2, S3, Lambda, DynamoDB, API Gateway, IAM, Blue-Green CI/CD), Docker, Kubernetes, Git, Jira

Skills: Problem solving, technical writing, code reviewing, debugging, troubleshooting, version control, TDD, Agile/Scrum.

EXPERIENCE

Graduate IT Assistant - Stevens Institute of Technology

Aug 2024 – May 2025

- Built a **Power BI-style ReactJS** web app to visualize classroom schedules, implementing dynamic filters for building, semester, and room selection; enabled **50+ IT staff** to efficiently access schedule data using a custom **JSON** dataset as the backend.
- Developed knowledge base articles and led faculty training sessions, boosting technology adoption and reducing recurring IT issues by **25%**, minimizing disruptions.
- Resolved **150+ technical support tickets/month** using **Freshservice**, troubleshooting **hardware/software issues** and improving system uptime to **99.99%** across classrooms and conference rooms.

Software Engineer - Propix Technologies

Aug 2020 – July 2023

- Collaborated with cross-functional teams to design Track & Trace solutions using the **ASPNET** stack and **MSSQL**, implementing stored procedures and SQL queries that improved data processing efficiency by **30%** for manufacturing and pharma clients.
- Built internal tools utilizing the **MERN stack**, effectively automating key business processes and reducing manual effort by **40%** across the organization.
- Boosted overall project outcomes and client satisfaction by leading comprehensive requirement gathering and analysis, identifying critical client needs, and consistently enhancing project delivery success rates.
- Performed thorough testing on both client and server sides before deployment, ensuring high-quality releases and improving overall application stability and reliability in regulated environments.
- Implemented frontend enhancements using **ReactJS** across different projects, significantly improving user experience and reducing UI-related issues by **30%**, resulting in increased customer satisfaction and lower support overhead.
- Enhanced product quality by resolving persistent UI bugs, creating dynamic forms, and integrating robust validations with client-side JS (**jQuery**) reducing error rates by **25%** and elevating user satisfaction.
- Streamlined cross-team collaboration by integrating new functionalities and promptly resolving bugs in both frontend and backend systems, reducing support ticket volume by **20%** and accelerating feature rollouts.

PROJECTS

Pre-Surgical Epilepsy Evaluation Platform: [\[GitHub\]](#) Engineered a full-stack healthcare web app using **React.js**, **Node.js**, **MongoDB**, and **AWS**, enabling doctors to identify seizure-causing brain regions. Implemented secure data access, 3D neuro-imaging visualization with zoom/timeline controls, and EEG/MEG data analysis using **MNE-Python**, enhancing diagnostic accuracy and surgical outcomes. Received the Stellar Project Achievement Award.

Research Collaboration Platform: [\[GitHub\]](#) Created a LinkedIn-style platform for academic collaboration using the **MERN stack**, **WebSockets**, and **Tailwind CSS**. Enabled real-time chat, notifications, and dynamic user directories with **Redis** for caching and **Firebase Authentication** for secure login. Facilitated seamless collaboration between professors and students with optimized responsiveness and live engagement.

Job Application Tracker [\[GitHub\]](#) Built a Simplify-style job applications management tool with **Node.js**, **MongoDB**, **Leaflet.js**, and **Cloudinary**, allowing users to track applications via interactive maps, real-time analytics dashboards, and secure profile management. Improved application tracking efficiency by **40%** and boosted engagement with geographic visualization.

Cloud Migration & Microservices Implementation : [\[Link\]](#) Architected a containerized microservices system on **AWS ECS Fargate** using **Docker**, decoupling a monolithic **Node.js** app into modular services with ALB path-based routing, reducing API latency by **40%**. Automated CI/CD with **CodePipeline**, enabling **blue-green deployments** and cutting deployment time from 25 to 7 minutes. Migrated MySQL to **Amazon RDS** with IAM-based access control and VPC peering, achieving **60% cost savings**. Deployed **CloudFormation** templates for IaC and applied auto-scaling and IP whitelisting, supporting **5,000+ users** with sub-2s response times.