

# ATHARV BHALE

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## Education

### University of Massachusetts Amherst

*Masters of Science in Computer Science*

Expected Graduation: May 2027

Current GPA: 4.0/4.0

- Coursework: Reinforcement Learning, Machine Learning, Software Engineering

### VIIT Pune

2020 – 2024

*Bachelor of Technology in Computer Engineering*

GPA: 3.93/4.0

- Coursework: Object Oriented Programming, Database Management, Computer Networks, Data Structures & Algorithms, DevOps

## Skills

**Languages:** Java, Python, JavaScript, SQL

**Backend & Cloud:** Node.js, Express, REST APIs, AWS (EC2, S3, Lambda), Docker

**Frontend:** ReactJS, Redux, TailwindCSS, HTML/CSS

**Databases:** PostgreSQL, MongoDB, MySQL, Redis

**Tools & Frameworks:** Git, Jenkins, Postman, JMeter, Agile, Distributed Systems, Linux

## Experience

### Software Developer

Feb 2025 – July 2025

*Tata Consultancy Services*

Pune, India

- Analyzed and refactored components of a legacy distributed system to support a zero-downtime migration across teams.
- Automated operational workflows using Python, reducing manual effort by 70%.
- Optimized PostgreSQL query performance by implementing materialized views and index tuning, reducing report generation latency by 30% for large-scale datasets.
- Integrated AWS CloudWatch for real-time monitoring and alerting, improving system reliability and reducing incident response time.

### Full Stack Developer

Aug 2024 – Jan 2025

*Champhunt INC*

Remote

- Architected and launched a subscription-based revenue system utilizing Node.js, implementing secure payment workflows that resulted in a 2x increase in recurring revenue.
- Built and shipped core full-stack features that led to 70% user growth and contributed to acceptance into Techstars '24 accelerator.
- Led and mentored interns through code reviews and sprint planning, ensuring high-quality and on-time feature delivery.
- Re-engineered cloud infrastructure by migrating static assets to Amazon S3/CloudFront and offloading heavy tasks to AWS Lambda, cutting operational costs by 25% while improving performance.

### Full Stack Developer Intern

Jan 2024 – Jul 2024

*Champhunt INC*

Remote

- Designed and implemented a microservices-based Fantasy League feature with real-time match data and leaderboards and leaderboards, boosting engagement by 45%.
- Built a responsive partner landing page using React and TailwindCSS, optimizing asset delivery to improve load speeds by 30%.
- Profiled backend request flows and eliminated performance bottlenecks using caching and query optimization techniques that reduced average response time by 40% and improved scalability.
- Technologies: Node.js, React, TailwindCSS, MongoDB, REST APIs, Microservices, Redis, Kafka

## Projects

### MediConnect | ReactJS, Node.js, MongoDB, REST APIs, Python(Machine Learning), FastAPI

Dec 2025

- A SaaS healthcare platform enabling appointment scheduling, secure messaging, and medical record sharing at scale.
- Developed a Python-based ML microservice utilizing Scikit-learn for symptom-driven disease prediction, achieving high inference accuracy for real-time diagnostics.
- Improved MongoDB query performance through strategic indexing and Redis caching, significantly reducing API response latency.
- Designed and implemented RESTful APIs, supporting authentication and multi-role workflows.
- Developed a secure file-sharing system for medical images and reports, leveraging cloud storage and CDN-based data retrieval for fast, reliable access.

### Travel Memories — Social Platform | React, Redux, Node.js, MongoDB, Material-UI

July 2025

- Built a full-stack social platform using Redux for centralized and predictable state management.
- Integrated Google OAuth with JWT-based authentication to enable secure, seamless cross-device user sessions.
- Implemented a backend tag-based search and filtering system to efficiently query large collections of travel posts using user-defined metadata.