

# ATHARV BHALE

(413)409-4535 | [atharvb.0013@gmail.com](mailto:atharvb.0013@gmail.com) | [LinkedIn](#)

## Education

### University of Massachusetts Amherst

*Masters of Science in Computer Science*

- Coursework: Reinforcement Learning, Machine Learning, Software Engineering

Expected Graduation: May 2027

Current GPA: 4.0/4.0

### VIIT Pune

*Bachelor of Technology in Computer Engineering*

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

2020 – 2024

GPA: 3.93/4.0

## 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

*Tata Consultancy Services*

Feb 2025 – July 2025

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

*Champhunt INC*

Aug 2024 – Jan 2025

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

*Champhunt INC*

Jan 2024 – Jul 2024

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.