

PRATHAMESH AKOLE

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EDUCATION

Masters of Science in Computer Science, Northeastern University, Boston

Exp. May 2025

Khoury College of Computer Sciences

GPA 3.91/4

Coursework: Programming Design Paradigm, Algorithms, Web Development, Building Scalable Distributed Systems

Bachelor of Technology, Vishwakarma Institute of Information Technology

May 2023

Major: Information Technology Relevant courses: DSA, Discrete Structures, DBMS, OS, ML

GPA 3.84/4

SKILLS

- **Languages:** Java, C, C++, Python, HTML, CSS, JavaScript(ReactJs, NextJs, ExpressJs), Spring Boot
- **Databases:** SQL, MySQL, MongoDB, Postgres, DynamoDB, Redis, GraphQL
- **Cloud & DevOps:** Amazon Web Services (AWS), Docker, Kubernetes, CI/CD (Jenkins), Terraform
- **Others:** RESTful APIs, Microservices, Splunk, Grafana, Kafka, Flink, Git, Agile methodologies, Test-Driven Development (TDD), Machine Learning(Computer Vision).

PROFESSIONAL EXPERIENCE

IDEaS Revenue Solutions

Jan 2023- June 2023

Associate Software Developer - Intern

Pune, India

- Developed and executed a comprehensive testing plan for new features and RESTful APIs, resulting in a 15% decrease in post-release bugs reported by the clients.
- Implemented agile development practices using Java & SpringBoot, leading to a 30% decrease in time-to-market for feature releases.
- Conducted thorough code reviews & debugging sessions, reducing the number of bugs in the flagship product by 15%.
- Collaborated with cross-functional teams to prioritize feature backlog based on data-driven insights, resulting in a 10% increase in overall product satisfaction ratings.

PROJECTS

Pinpoint - A Geoquesser Social Media

Jan 2024 - May 2024

- Implemented a location-based social media that allows users to play visual guessing games to locate geo-tagged photos.
- Deployed the frontend on Netlify and the backend on Onrender to demonstrate reliable and scalable operations
- Incorporated an advertising component to enable approved businesses to display advertisements.
- Ensured data security and content moderation through the implementation of authentication, and authorization.

Kanbas Learning Management Software ([Github Link](#))

Jan 2024 - May 2024

- Led the creation of Kanbas, a comprehensive Learning Management System, leveraging the MERN stack to facilitate online education, achieving a 40% reduction in initial load times by optimizing with caching and server-side rendering.
- Engineered advanced authentication and authorization mechanisms using JWT, enhancing data protection & ensuring secure user sessions, focusing on security best practices.
- Designed interactive collaboration features using WebSockets, significantly improving the online classroom experience.

Image Processing Software

Aug 2023- Dec 2023

- Engineered a Java-based Image Processing Software, enhancing functionality & UX by adhering to programming standards.
- Optimized efficiency & leveraged design patterns through Test Driven Development, achieving seamless responsiveness.
- Spearheaded the integration of documentation and rigorous testing protocols, ensuring a reliable editing experience.

AI-Enabled Web Platform

Aug 2022 - Dec 2022

- Led a team of 5 for an industry-sponsored project in developing an online rental web portal with ReactJs & Java, enhancing UI through advanced ML features, and demonstrating technical expertise in full-stack development.
- Engineered a sophisticated admin panel using MongoDB, significantly improving UX optimization across the platform.
- Pioneered a ML-based price prediction tool for rental machines, leveraging self-created databases to enhance accuracy.

PUBLICATIONS

- Real-Time CCTV Violence Detection System Using Deep Learning, April 2023, ISBN: 978-1-6654-7524-2.
- Real-Time CNN-Based Face Mask Detection System, December 2022, ISBN: 9781032374598.