

ATHARVA NEGI

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PROFESSIONAL SUMMARY

Software Engineer with 1+ years of experience in full-stack and backend systems, currently pursuing a Master's in Computer Science at Emory University. Strong foundation in algorithms, data structures, and scalable system design. Experienced in Java and C++, and actively contributing to distributed backend services. Open to relocation across the U.S.

EDUCATION

Emory University

Master's, Computer Science

August 2024 - May 2026

GPA: 4

- Relevant Coursework: Software Engineering, Machine Learning, Natural Language Processing, Information Retrieval

Devi Ahilya University

Bachelor's, Computer Engineering

August 2019 - May 2023

GPA: 8.5

- Relevant Coursework: Distributed Systems, Operating Systems, Database Systems, Data Structures & Algorithms, Cloud Computing

PROFESSIONAL EXPERIENCE

Emory University

Software Engineer

Atlanta, GA, USA

February 2025 - Present

- Refactored and modernized a graduate admissions platform by migrating from Angular to React.js + Redux, and integrated it with a Flask backend and PostgreSQL database, improving modularity, enabling secure authentication, and reducing frontend bug reports by 40%.
- Deployed and maintained the system used by 30+ faculty members to review 800+ applications during the 2024–2025 admissions cycle, supporting multi-reviewer workflows.
- Implemented detailed interaction logging (e.g., mouse activity, focus time) to power reflective analytics dashboards, contributing to a 66% decrease in review time per applicant (from ~30 to under 10 minutes).

Cognizant

Software Engineer

Pune, MH, India

September 2023 - July 2024

- Maintained and optimized a high-traffic Drupal 8 platform and MySQL database, reducing system downtime by 98% and improving data retrieval speed by 35%.
- Delivered 10+ custom modules and production-ready features under strict deadlines, enhancing user experience and platform capabilities.
- Streamlined development workflows using Agile, Git, and CI/CD pipelines, cutting defect rates by 15% across 20+ deployments.

Cognizant

Software Engineer Intern

Pune, MH, India

January 2023 - June 2023

- Led end-to-end development of the user interface, designing 21 React.js components and developing core pages such as the admin section, user section, and forms using JavaScript.
- Collaborated with team members to improve the scalability and responsiveness of Java 14 applications using Spring Boot microservices, enabling optimized RESTful API communication and a 30% increase in system throughput.
- Enhanced UI/UX based on extensive user feedback, reducing support tickets by 25% and increasing customer satisfaction.

PROJECTS

CoRAGen - A Comparative User Interface for Multi-Aspect Retrieval Augmented Generation - [Link to project](#)

- Developed a comparative Retrieval-Augmented Generation (RAG) interface using React.js and Flask, enabling users to analyze controversial queries across multiple aspects such as stance, relevance, and credibility.
- Implemented backend support for multi-aspect search, reranking, and generation, integrating LLM-based query reformulation and summary evaluation to enhance result diversity and groundedness.
- Designed an intuitive user interface and evaluation dashboard for cross-aspect comparison, supporting output visualization, model configuration, and interaction logging for reproducibility and analysis.

Resource - Food-sharing Web Application - [Link to project](#)

- Developed a full-stack web application using React.js, Flask, and PostgreSQL to facilitate food sharing and community engagement.
- Implemented core features including user authentication, food listings, real-time messaging, and profile management with a responsive UI.
- Led development of user dashboard and homepage, improving navigation and overall user experience while ensuring timely delivery of project milestones.

SKILLS

Programming Languages: HTML/CSS, Java, Python, C/C++, JavaScript, SQL

Libraries, Frameworks & Tools: React.js, Redux.js, Node.js, Flask, Spring, Drupal, NumPy, Pandas, Keras, Tensorflow, Pytorch

Databases: MySQL, MongoDB, PostgreSQL

Additional Skills: CI/CD, Git, Agile, Maven, Mongoose