

# ADITYA PRAKASH

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## EDUCATION

### Emory University

Master's, Computer Science

- Relevant Coursework: Machine Learning, Software Engineering, Cyber Security, Human Computer Interaction

May 2025

GPA: 3.8

### Devi Ahilya University

Bachelor's, Computer Engineering

Jun 2023

GPA: 8.68

## PROFESSIONAL EXPERIENCE

### Emory University

Software Engineer

Atlanta, GA, USA

May 2024 - Present

- Fine-tuned and deployed LLaMA 70B on a Flask server to power an AI-based admissions screening system, automating evaluations for 800+ CS applicants per cycle. Reduced review time by 66% (from ~30 minutes to under 10 minutes per applicant) and saved ~\$50,000 annually.
- Developed a faculty management system to track and approve leaves, performance reviews, awards, and tenure progression, streamlining administrative processes for 5,000+ faculty members, using React.js, Remix, and Next.js.
- Designed and implemented automatic grading software in React.js and Node.js for Python and Java assignments, automating grading for 300+ students and reducing grading time by 50% for faculty and TAs.
- Created 30+ reusable components and 90+ webpages for the Emory Computer Science website, later migrating the system to Cascade CMS for easier administrative management. Conducted weekly audits to identify broken links and outdated content while collaborating with stakeholders to enhance design and content.

### Watto AI (YC S23)

Software Development Intern

Remote

Jun 2023 - Aug 2023

- Led end-to-end development of user interface. Developed 24 React.js and Next.js components and Figma designs. Prototyped document hub, forms, outline editor and other core pages with HTML, CSS, JavaScript and TypeScript.
- Pioneered implementation of a real-time outline feature, providing instant feedback, leading to a 58% decrease in revisions.
- Optimized database performance by utilizing MongoDB for efficient NoSQL data storage and retrieval, implementing indexing, sharding, and caching, leading to enhanced backend API performance and seamless data management for user documents.

### Rakuten

Software Development Intern

Indore, Madhya Pradesh, India

Jan 2023 - May 2023

- Improved network reliability by 80% by developing a capacity manager. Wrote 50+ APIs for automation using Python and C++.
- Saved over \$100,000 in expenses by successfully migrating from OracleDB to MySQL, ensuring seamless integration with Rakuten's existing ecosystems.
- Facilitated database connectivity with Ubuntu through Docker, automating code setup through shell scripts. Developed Python scripts for dummy input generation and database queries, resulting in a 30% reduction in execution time.

## PROJECTS

### Canvas AI Assistant - [Link to project](#)

Atlanta, GA, USA

Jan 2025 - Present

- Improved accessibility of AI-driven tools for students by developing a Python tool that creates an MCP-compliant server integrating AI assistants with Canvas LMS, structuring course data into knowledge graphs and storing it in SQLite.
- Enhanced student experience by developing a syllabus parser that integrates with the Canvas API, automatically updating course modules, assignment due dates, and exam schedules and reducing manual tracking by 100%.
- Built an AI-powered lecture material retrieval system, enabling instant access to summarized content and lecture insights, improving revision speed by 2x for the average student and ensuring comprehensive study resources for students.

### Intelligent Movie Recommendation System - [Link to project](#)

Atlanta, GA, USA

Jan 2025 - Present

- Architected and developed a full-stack Movie Recommender System using Remix, React.js, Flask and PostgreSQL with advanced caching strategies using Redis.js to achieve an 85% cache hit rate, which reduced redundant database queries by 40%.
- Integrated third-party TMDB API to aggregate a comprehensive movie database and implemented a custom indexing strategy that cached the 200 most frequently accessed movies, reducing query response times by 80%.
- Achieved a 95% user satisfaction rating by conducting iterative usability tests, gathering actionable feedback, and refining both the interface and functionality to create a more intuitive UI/UX and engaging features.

## SKILLS

**Programming Languages:** C/C++, Java, Python, JavaScript, TypeScript

**Databases:** MySQL, MongoDB, Redis

**Libraries, Frameworks & Tools:** Express.js, React.js, Node.js, Next.js, Redux, Spring, Flask, NumPy, Pandas, FastAPI, Scikit-learn, SciPy, Tensorflow, Pytorch, Keras

**Additional Skills:** Git, Bash, Linux, Docker, Kubernetes, AWS, Azure, GCP, CI/CD