

Aditya Prakash

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EDUCATION

Emory University

Master of Science in Computer Science

May 2025

Atlanta, GA

Cumulative GPA: 4.0/4.0

Relevant Coursework: Machine Learning, Algorithms, Cyber Security, Design Studio in Human Computer Interaction

Awards: Emory University Fall 2023 Scholarship

Devi Ahilya University

Bachelor of Engineering in Computer Engineering

June 2023

Indore, MP

Cumulative GPA: 8.68/10.0; Class Rank: 3/150; Graduated **summa cum laude**

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Artificial Intelligence

TECHNICAL SKILLS

Programming Languages: **C, C++, Java, Python, JavaScript, TypeScript, HTML, CSS**

Databases: **SQL, MySQL, MongoDB, MariaDB, Redis, Firestore, PostgreSQL**

Libraries, Frameworks & Tools: **Redux, Express.js, React.js, Node.js, Next.js, Tailwind CSS, Three.js, Vega, Git, Postman**

Additional Skills: **Kubernetes, Apache, AWS, GCP, D3.js, Charts.js, ZeroMQ, DevOps**

WORK EXPERIENCE

Emory University

Graduate Teaching Assistant

Aug 2023 - Present

Atlanta, GA

- Mentored over **100 students** for CS326: Analysis of Algorithm under Professor Michelangelo Grigni, fostering understanding of complex algorithmic concepts through **Python and Java**, evidenced by a **22% increase in average class grades**.

Watto AI (YC S23)

Software Development Intern

Jun 2023 - Aug 2023

Seattle, WA

- Led end-to-end development and design of the user interface. **Developed 24 React.js and Next.js components** and Figma designs. Prototyped the document hub, forms, outline editor and other core pages with **JavaScript and TypeScript**.
- Added the option of integrating Google Drive, Notion, and other platforms, enabling users to add 3rd party data sources as additional references, which contributed to a **39% increase in application usage**.
- Pioneered the implementation of a real-time outline feature, allowing users to receive instant drafts and provide feedback and customization, leading to a **58% decrease in document revisions**.

Rakuten

Software Development Intern

Jan 2023 - May 2023

Indore, MP

- Spearheaded the development of the algorithmic backbone of the capacity manager. Wrote more than **50 Python and C++ algorithms** for automation of network management, resulting in an **83% improvement in network reliability**.
- 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**.
- Successfully migrated from **OracleDB** to **MySQL**, which allowed for seamless integration with Rakuten's existing ecosystems. Additionally, switching to an open-source DB **saved over \$100,000 in expenses**.

PROJECT EXPERIENCE

[Concordance in Machine Learning and Deep Learning for Breast Cancer Screening](#)

Aug 2023 - Dec 2023

- Fine-tuned ResNet50 and InceptionNetV2 models for tumor detection in mammograms, which are X-Ray scans of the breast. **Achieved 77% accuracy and 91% AUC with best models**.
- Created end-to-end pipelines for seamless integration of image data with clinical information, processing a dataset over **5TB in size and comprising 73,000 individual patient diagnoses**.
- Implemented Naïve Bayes, SVMs, kNNs, Decision Trees, Logistic Regression etc. to operate on clinical data. Assessed inter-observer variability using Cohen's Kappa, which **achieved a score of 0.47858**.