

ADITYA PRAKASH

Software Engineer

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EDUCATION

Emory University

Master of Science in Computer Science

2023 - 2025

Atlanta, GA

- **Courses:** Human AI Interaction, Machine Learning, Algorithms

Institute of Engineering & Technology, Devi Ahilya University

Bachelor of Engineering in Computer Engineering

2019 - 2023

Indore, MP

- **Courses:** Computer Programming in C++, Data Structures, Design and Analysis of Algorithms, Artificial Intelligence
- **GPA:** 8.68/10; **Class Rank:** 3/150; Graduated **summa cum laude**

WORK EXPERIENCE

watto.ai

Software Development Intern

Jun 2023 - Aug 2023

Indore, MP

- Played a key role in the launch of a **Y Combinator-backed startup**, which leveraged **Large Language Models (LLMs)** to create technical documents like **PRD, HLD** etc. using diverse data sources. Led end-to-end development and design of the user interface. Developed **20+ components**, pages and APIs including the document hub, forms, outlines, editor, etc.
- 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 **30% 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 **25% decrease in document revisions**.

Rakuten

Software Development Intern

Jan 2023 - May 2023

Indore, MP

- Spearheaded the development of the algorithmic backbone of the automated network predictor and manager. Wrote **50+ algorithms** for automation of network capacity management, resulting in a **40% reduction** in manual management efforts and a **60% improvement** in network reliability.
- Facilitated database connectivity with Ubuntu through Docker, implementing automation and easy setup of the code base via shell scripts. Successfully migrated from OracleDB to MySQL, which allowed for seamless integration with Rakuten's existing ecosystems. Additionally, switching to an open-source DB **saved the company over \$100,000 in expenses**.
- Debugged C++ code, resolving compilation issues and **reducing error rates by 15%**. Developed Python scripts for dummy input generation and database queries, resulting in a **30% reduction in execution time**.

workattech

Software Development Intern

Mar 2022 - Jun 2022

Bangalore, KA

- Developed the user profile page for **over 50,000 users** with features like problem distribution, rank-card, progress bars, and a heat map of past submissions. Created an accompanying resume generator that can produce a concise 1-page resume from the coding profile, including language proficiency, past positions, and education.
- Programmed a problem bookmarking system to filter **300+ problems across 4 difficulties and 14 topics**. Designed a **smart problem recommender** to list similar problems for correct submission, and simpler problems for incorrect ones.
- Built a comprehensive compensation comparison page that allowed employees to compare their salaries and benefits against industry standards and company benchmarks. The tool was used by **100,000+ users** to accurately compare compensations, facts and figures, and hiring trends for **over 25 companies**.

SKILLS

Languages

C, C++, Java, Python, JavaScript, HTML, CSS

Libraries & Frameworks

Axios, Redux, Mongoose, Ky, Express, React, Node, Next, Discord.py, OpenCV, Pandas, Numpy, TSFresh, Android, Streamlit

Databases

MySQL, MongoDB, MariaDB, Redis, Firestore, PostgreSQL