

Prabhanshu Abhishek

PROFILE SUMMARY

Software Engineer (2+ years at Amazon; IIT Kanpur CS grad, CPI - 8.6/10) with strong technical skills and a growth mindset. Previously pursued the UPSC Civil Service Exam. Now ready to re-enter the workforce with updated skills and a hands-on project. Seeking a challenging role to deliver impactful results.

PROFESSIONAL EXPERIENCE

Software Development Engineer, Amazon

Jun'17 - July'19

- Worked in an agile environment on the transportation organization's core services that processes and exposes shipment tracking data to customers and internal teams.
- Created an internal web service called ScanInsertionTool** to generate exception scans for delayed packages, **improving the order tracking experience for customers**. Used Java, Spring Boot, asynchronous processing, and REST APIs for backend development; jQuery and Bootstrap for frontend.
- Led successful database migration** from Oracle to AWS Aurora PostgreSQL, **minimizing downtime** (challenging due to the immense scale of data involved) from estimated 12+ hours to just 1.5 hours, resulting in a **reduction of ~90%** using dual-write & backfill strategy.
- Designed and implemented a library** for encrypting and decrypting sensitive data within the transportation platform, enhancing data security by utilising AWS Key Management Service.

Software Development Engineer Intern, Amazon

May'16 - July'16

- Quickly grasped and applied Java, AWS, Workflows, and Spring framework within a short timeframe.
- Streamlined failure handling in Hawkeye alert system by implementing robust workflows using AWS Simple Workflow Service to auto-generate notifications when alarms failed to retrieve status due to system glitches.

PROJECTS

Question Answering chatbot [GitHub link](#), [Google Colab link](#)

Feb'24 - Apr'24

- Reduced hallucination in Large Language Models by implementing Retrieval-Augmented Generation (RAG), a technique that utilizes external data for citations of sources and enhanced response accuracy and reliability.
- Tools/Frameworks used:** Python, FAISS vector DB, LLM, LangChain for data and machine learning.

SHARED web app - Peer-to-Peer document sharing app - [GitHub link](#)

Aug'16 - Nov'16

- Tools/Frameworks used: User Authentication using **Google's OAuth 2.0**, **Django** for implementing **MVC Design pattern**, webTorrent for seeding and downloading, jQuery and JavaScript.

Large Scale Item Categorization, Prof. Harish Karnick - [GitHub Link](#)

May'15 - June'15

EDUCATION AND ACADEMIC ACHIEVEMENTS

Indian Institute of Technology (IIT), Kanpur

2013 - 2017

B. Tech, Computer Science & Engineering CPI - 8.6/10

UPSC Civil Services Examination

July'19 - Mar'24

- Appeared in 2022 and 2023 interviews after qualifying for preliminary and written exams. Among the top 0.25 percent of about 1 million applicants.
- Instilled strong work ethic, adaptability, and teamwork skills, which are valuable in software engineering.

KVPY Fellow (2011-12) and **NTSE Scholar** (2010). Secured Rank 10 in RMO.

Among top 45 students selected for *OCSC Camp* for **International Astronomy Olympiad (IAO)**, 2013

SKILLS & INTERESTS

Programming Languages: Java, C++, Python, jQuery

Frameworks/Tools: Spring, Spring Boot, JUnit, Mockito, Django, Bootstrap

Technical skills: Object-Oriented Programming(OOP), Microservices Architecture, System Design

Amazon Web Services(AWS) used: SNS, SQS, S3, EC2, Aurora, CloudWatch

Interests: Sci-fi movies, Running, and [Rapid chess](#)