

Akash Maji

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EDUCATION

INDIAN INSTITUTE OF SCIENCE

M.TECH IN COMPUTER SCIENCE

Pursuing | 2024-2026 | Bangalore, IN
Dept of CSA | IISc, Bangalore
Cum. GPA: 7.90 / 10.0

RGPV UNIVERSITY, BHOPAL

B.TECH IN COMPUTER SCIENCE

Graduated | 2017-2021 | Bhopal, IN
Dept of CSE | TIT Science, Bhopal
Cum. GPA: 9.39 / 10.0
Result: Distinction (Hons.)

KRISHNA PUBLIC SCHOOL

HSC | PHYSICS, CHEMISTRY, MATHS

2015 - 2017 | Bhilai, IN
Class XII Boards: 95.4 / 100.0

DAFFODIL PUBLIC SCHOOL

MATRICULATION | SCIENCE STREAM

2005 - 2015 | Raigarh, IN
Class X Boards: 94.5 / 100.0

COURSEWORK

UNDERGRADUATE

Operating Systems | Databases | Computer Networks | Computer Organization | Digital Logic Design | Discrete Math | Compiler Design | Theory of Computation

GRADUATE

Algorithms | Probability and Statistics | Databases | Computer Architecture | Optimizations | Machine Learning | Cryptography | Distributed Systems

ACHIEVEMENTS

2024	GATE CS	AIR 026
2023	GATE CS	AIR 608
2024	GATE DA	AIR 648

SKILLS

PROGRAMMING

Industry experience with:

Java • JavaScript • Spring • Eclipse/STS • Oracle DB • JIRA • GitLab • SQL

Proficient with:

Java • C/C++ • Python • VSCode • Git

SOFT SKILLS

Native Proficiency:

Business English • Hindi • Bengali

EXPERIENCE

TATA CONSULTANCY SERVICES | SYSTEMS ENGINEER

Aug 2021 – May 2024 | Full Time

- Worked as a System Engineer in TCS (Digital) as full-stack developer.
- Received 3 Star of Month awards for managing the team and contributing to projects including development and production support.

CERIFICATIONS

ORACLE CERTIFIED ASSOCIATE JAVA PROGRAMMER | JAVA 8

Feb 2019 | Bhopal, IN

Certified as a Java Programmer from Oracle through online proctored exam

MICROSOFT CERTIFIED AZURE FUNDAMENTALS | AZURE

July 2020 | Online

Recognized as an entry-level cloud programmer from Microsoft

PROJECTS

MARKET MICROSERVICE | PODS COURSE PROJECT | GitHub

Implemented three microservices (account-service, marketplace-service, wallet-service) using dockerized akka-cluster where concurrent RESTful requests are made and served using CLI, while still ensuring consistency and correctness.

Technologies Used

Java21 • IntelliJ • Git • SpringBoot3 • Akka library • Docker • Kubernetes

DUCKDB | DBMS COURSE PROJECT | GitHub

Implemented two operators, 'Join' and 'GroupJoin' in the open-source DuckDB source-code, with 'Join' being simple nested loop join, and 'GroupJoin' being used when we have a any 'join' followed by 'group by' in the query.

Technologies Used

C++ • CMake • Git • SQL • VSCode • QtCreator

CHAMPSIM-IISC | HPCA COURSE PROJECT | GitHub

ChampSim-IISc is an adapted version of ChampSim (open-source simulator) with various kinds of branch predictors implemented for calculating performance metrics like prediction accuracy, MPKI, IPC etc. from program traces.

Technologies Used

C/C++ • Shell Scripting • Git • VSCode • Python3

LARGE PAGE ALLOCATOR | HPCA COURSE PROJECT | GitHub

Used 'perf mem' tool to obtain a sampled report of TLB misses at different logical addresses, and identified top N TLB-miss regions and allocated large pages to improve performance.

Technologies Used

C/C++ • Python • Git • Make • VSCode

LINKS

Website:// akashmaji.me Github:// [akashmaji946](https://github.com/akashmaji946) LinkedIn:// [akashmaji946](https://www.linkedin.com/in/akashmaji946)