Mrigank Sagar

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Software engineer and a linux enthusiast.

Education

Delhi Technological University

B.Tech in Computer Engineering

Delhi, India

2017 - 2021

- CGPA: 8.0 out of 10.0.
- **Relevant Coursework**: Distributed systems, Information & network security, Big-data analytics, Compiler design, Theory of computation, Artificial intelligence.
- Lab Internship: Simulated computer networks with Mininet to study routing under various topologies and loads and create optimised routing tables for Software Defined Networks(SDN).
- · Bachelor thesis: Proposed an ontology-driven approach to document software systems, improving maintainability.

Rajkiya Pratibha Vikas Vidyalaya (C.B.S.E)

Delhi, India

2016-2017

12TH GRADE SENIOR SECONDARY

- Achieved 92.2 percent marks and class rank 3 out of 105.
- Graduated from one of the highly reputed grammar schools in Delhi.
- Awarded by the Chief Minister of Delhi for excellence.

Experience

Optum (UHG) Gurugram, India

2021 - Present

FULL-STACK SOFTWARE ENGINEER

- Key contributor to Onepass, a comprehensive fitness care platform offering gym and various membership benefits, and Admin-portal, an internal client onboarding and management platform.
- Leveraged Scala with purely functional libraries such as Cats-effects and Quill to create highly reactive and scalable backend microservices, resulting in 40% less response time under high loads.
- Designed event-driven applications with kafka and postgreSQL to ensure reliable data-flow across microservices.
- Built microservices written in Java with Springboot and Node.js to expose REST and GraphQl APIs ensuring seamless integration with frontend applications.
- Created responsive frontend applications with React.js and Next.js with server side rendering.

Publications

• Ontology Driven Software Development for better Understanding and Maintenance of Software System. Proc. ICTSCI 2022, pp. 73–81, Springer, 2022. (Co-authored with Kushal Kumar and Kumar Abhijeet under mentorship of Dr.Rohit Beniwal).

Projects

Designer/Developer

TORRENT DOWNLOADER 2023 - 2024

- Developed a torrent client to download torrents only using the browser without the need for additional service or installations.
- · Leveraged React.js and Shadcn to create a responsive and appealing UI with Webtorrent.js to power the torrent client.

Awards and Achievements

- Awarded certificate of excellence for perfect CGPA from the Education Minister of India.
- Qualified for JEE mains and JEE advanced with rank in the top 1% of millions of applicants nationwide, and secured admission eligibility
 for prestigious Indian Institute of Technology (IITs).
- Awarded medal by Chief Minister of Delhi for exceptional performance by public school students in JEE exams.
- Awarded scholarship by Delhi government to fully sponsor tuition classes by VMC for JEE preparation.

Activities and Interests

- Volunteered to visit children in orphanages and teach lessons in Science and Maths.
- · Volunteered to visit slums and mentored children to build life essential skills and self-confidence while understanding them.
- My hobbies and interests include playing Chess, Guitar, English literature, and listening to Music.

Skills_

Programming languages Scala, Java, Typescript, Javascript, C++, C, Python, Typst

Scala ecosystem

Technologies Springboot, Play, React.js, Next.js, HTML/CSS, PostgreSQL, GraphQL Cats, Cats-effects, Play, Akka actor system, Akka /Pekko streams, Slick, Quill

Git, Docker, Podman, Kubernetes, Linux

Tools & platforms **Languages** English, Hindi, German

MRIGANK SAGAR CURRICULUM VITAE