Alisha Rath

California, United States

https://www.linkedin.com/in/alisha-rath-b6b306102/

alisharath0@gmail.com

EDUCATION

San Jose State University, California, USA

MS in Computer Science — GPA: 4/4

Coursework: Database Systems, Artificial Intelligence, Server Side Programming, Design and Analysis of Algorithms

Visvesvaraya National Institute of Technology, Nagpur, India

BS in Computer Science — GPA: 9.3/10

May 2017

Coursework: Data Structures, Data Mining, OS, Cloud Computing, Object Oriented Programming, Web Programming

SKILLS

Languages: Java, C++, JavaScript, Python, SQL, PHP, R, C

Databases and Web Technologies: React, Angular, Oracle, REST, AWS, HTML, CSS, Kafka, Spring Boot

WORK EXPERIENCE

Amazon Web Services, East Palo Alto, California

Software Engineering Intern

May. 2024 – Aug. 2024

- Developed ECS/Fargate service with REST endpoints for streamlined S3 file retrieval.
- Implemented an automated deployment pipeline triggering S3 uploads upon successful builds.
- Optimized config change handling, reducing deployment time from 8 hours to 1 minute.

Fidelity Investments, Bangalore, India

Lead Software Engineer

Dec. 2022 - Jun. 2023

- \circ Led micro-services initiative, optimizing platform maintenance time by 40% and boosting batch processing efficiency by 50% for the Quantitative Portfolio Management team. Collaborated with team globally for success.
- Saved millions of dollars in ARR through targeted optimization of AWS resource usage like reducing EC2 size, S3 lifecycle management, etc
- Optimized a batch scheduling automation test suite, resulting in reduction of processing time from 5 hours to 15 minutes
- Led a 7-member team for developing a successful AWS API Gateway and Lambda project as an alternative to Outlook
- Designed and implemented a Portfolio management User Interface using Angular 13, optimizing the user experience and reducing portfolio creation time.

Fidelity Investments, Bangalore, India

Software Engineer

Dec. 2017 – *Dec.* 2022

- Managed S3 bucket creation, lifecycle policies, and policy updates, boosting cloud storage and read-write by 23%
- Crafted a cache manager to streamline API calls, reducing data fetch time by 50 ms by eliminating redundant DB calls.
- Revolutionized the portfolio advisory products on-boarding process, reducing the timeline from 2 months to 10 minutes
- Led and executed the migration of 100% of on-premises microservices to AWS cloud, enhancing operational efficiency
- Automated a scheduler system, reducing enhancement efforts by 75% and slashing overall test time by 63%

Fidelity Investments, Chennai, India

Executive Graduate Trainee

Jul. 2017 – Dec. 2017

- Led a time-sensitive project, implementing ledger-based transaction storage with Ethereum gas and blockchain for precision in transaction cost calculation.
- Collaborated with a team to create a resilient client app website, facilitating seamless trading and order viewing experience.

Arcesium, Hyderabad, India

Software Engineering Intern

Jun. 2016 – Aug. 2016

 Accelerated infrastructure deployment by 90% through crafting an efficient AWS CloudFormation template with Python's Boto library.

KEY PROJECTS

IP Spoofing Detection using Hop Count Filtering

Visvesvaraya National Institute of Technology

Sep. 2016 - Mar. 2017

• Implemented hop count-based filtering within the Linux network stack, effectively detecting and neutralizing spoofed IP packets during a reflector **DDoS attack** with precision

Medical Utility App

Visvesvaraya National Institute of Technology

May. 2015 – Jul. 2015

o Developed an Android app to facilitate health information retrieval, provide first aid insights, offer medicinal drug descriptions, and dispense home remedy guidance

ACHIEVEMENTS & LEADERSHIP EXPERIENCE

- o Awarded and lauded for executing cloud migration tasks with a 100% efficiency improvement at Fidelity
- Received **On-Spot Awards** for exceeding expectations in achieving 100% automation of the scheduler process for batch processing at Fidelity.
- o Delivered a Kotlin Knowledge Transfer session at Fidelity for approximately 25 senior software developers, following attendance at GIDS Summit.
- Led and collaborated with a successful cricket team, securing victory in an intra-college event during freshman year.

May 2025

+1(669)-455-6539