Harshith Sesham

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PROFESSIONAL EXPERIENCE

Amazon, Seattle, WA: Software Development Engineer

Aug 2023 - Present

- Developed a back-end for a self-serve blueprint configuration tool utilizing Java, DynamoDB, and Coral endpoints, hosted on Amazon EC2, automated blueprint updates for live events, resulting in \$5M+ savings in manpower costs
- Collaborated with cross-functional teams to create infrastructure for automated live event broadcasts (NBA, MLB, tennis), contributing to a \$100M broadcast deal
- Introduced a shadow testing strategy, improving system resiliency by 25%, adopted by 30+ Amazon teams, enhancing cross-team stability and risk mitigation
- Launched 15+ risk message systems in the new Galileo framework, tailored for diverse locations and slots on Prime, resulting in measurable gains in user retention
- Resolved high-severity (SEV-2) tickets during on-call rotations, reducing on-call workload and maintaining the team's ticket count below 10 for high operational visibility and efficiency

Spurcroft, Houston, TX: Software Engineer

Jan 2023 - Aug 2023

- Collaborated on developing controllers, Interfaces and implementation classes using Spring MVC framework & used
 Microservice architecture with Spring Boot-based service through REST
- Created and injected Spring services, Spring controllers, and DAOs to achieve dependency injection and to wire objects of business classes
- Integrated RESTful and GraphQL APIs using JavaScript, facilitating seamless data exchange and reducing data retrieval times by 15%

Rice University, Houston, TX: Teaching Assistant

Aug 2022 - Dec 2022

 Curated challenging and engaging assignments and exams to enhance students' understanding of advanced algorithmic concepts for a class of 60 students

Tata Consultancy Services, Houston, TX: Software Development Intern

Feb 2022 - Aug 2022

- Constructed a web application in Java to support business analysis through interactive data visualizations, driving a 10% improvement in data-driven decision-making for a healthcare company
- Engineered service features for business alignment and data requests, reducing request volume by 60% and improving operational efficiency
- Focused on Spring bean wiring, Spring DAO, and Spring AOP modules, implementing Spring AOP for exception handling, which reduced development time for managing exceptions

RELEVANT PROJECTS

Social Media Application

Jan 2022 - Mar 2022

 Built and hosted a full-stack Facebook-like web application using React.js for the frontend, Node.js for the backend, and MongoDB as the database on Heroku

A Multi-Modal Vision and Language Model to Detect Harmful Social Media Memes

Jan 2022 - Mar 2022

Proposed leveraging OpenAI's CLIP model to enhance the understanding of multimodal hate speech and benchmark its
performance against state-of-the-art models from the Facebook AI community

EDUCATION

Master of Science in Computer Science

Aug 2021 - Dec 2022

Rice University, Houston, TX

Bachelor of Technology in Computer Science

Jul 2017 - Jun 2021

Amrita Vishwa Vidyapeetham, Kerala, India

TECHNICAL SKILLS

Microservices: Spring Boot, RESTful Services, Docker, Kubernetes, IP, TCP, DNS, Debian distributions

Cloud Infrastructure: AWS, EC2, ECS, IAM, SQS, CloudWatch, Lambda, API Gateway, S3, HEX, Microsoft Azure, Azure Machine Learning Service, Azure Databricks, SQL, Cosmos DB, Terraform, Kubernetes, CI/CD, CloudFormation, GitLab CI, junit, ServiceNow

Programming Languages: Java, JavaScript, TypeScript, Python, R, Scala, C, C++, C#, Bash, Golang, Ruby, AJAX, Vue

Web Technologies: HTML, CSS, XML, JavaScript, JSP, Angular, Backbone JS, Node JS, jQuery, ReactJS, Express, Bootstrap, .NET

Databases: PostgreSQL, Microsoft SQL Server, Oracle, AWS DynamoDB, Amazon RDS, Azure SQL, MongoDB, NoSQL