Gowtham Potnuru

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Education

Northeastern University **Jan 2022 – Apr 2024**

Master of Science in Computer Science *Boston, MA*

- Coursework: Distributed Systems, Database Systems, Operating Systems, Computer Networks, Information Retrieval

Vellore Institute of Technology **Aug 2015 – Apr 2019**

Bachelor of Technology in Electronics & Communications Engineering *Vellore, India*

- Coursework: Computer Architecture, Programming Languages, Image Processing, Data Structures & Algorithms

Technical Skills

Certifications: AWS Solutions Architect Associate, Azure Cloud Practitioner, ScrumStudy Scrum Fundamentals
Languages: Java, JavaScript, Python, Swift, C#, C++, GraphQL, PHP, Kotlin, TypeScript
Libraries/Frameworks: React, Express, Spring Boot, .Net, JUnit, Jest
Databases: DynamoDB, MySQL, MongoDB
Other: Cloudformation, Cloudwatch, Lambda, EC2, ECS, IAM, S3, Code Pipelines, API Gateway, Git, Docker, Jenkins

Experience

Amazon **May 2023 – Sep 2023**

Software Developer Intern *Boston, MA*

- Automated test processes and enhanced test automation capabilities by 70% by creating a command-line interface tool for Alexa device simulations using Kotlin.
- Revamped system monitoring and issue resolution by 60% by implementing comprehensive log analysis using Log4j.

Bracebridge Capital **Jan 2023 – May 2023**

Software Developer Co-op *Boston, MA*

- Reduced manual task management and enhanced team productivity by 80% by automating SQL script generation and establishing a centralized system using .Net (Blazor).
- Optimized data acquisition pipelines and doubled the processing speeds by implementing advanced multi-threading techniques and parallel processing in C#.

Schneider Electric **Aug 2019 - Nov 2021**

Software Developer *Bangalore, India*

- Enhanced operational efficiency, resulting in annual savings of over 200 hours in manual labor by automating access rights to data lakes and dashboards using AWS services.
- Decreased website development time by 30% by designing and implementing a modular UI configuration framework utilizing Typescript.
- Bolstered data security and improved system robustness by 40% by digitizing an Excel-based tool into a Web application and expanding the deployment to five countries using PHP.
- Decreased unauthorized access to cloud accounts by 80% by integrating a lightweight file upload portal using React.
- Minimized 3rd party security vulnerabilities and data corruption by 60% by developing secure data exchange APIs and enabling passive file analysis using Python.
- Ensured data integrity and compliance of data lakes by designing a multi-step approval tool and intricate authorization process, leading to the successful onboarding of eight datasets.
- Mentored a group of 10+ graduate trainees, providing comprehensive technical training and critical soft skills.

Projects

Job Application Tracker **Sep 2023 - Dec 2023**

- Enhanced student job search capabilities and increased platform engagement by 50% by developing a React-based front end with Redux, ensuring a seamless and responsive experience.
- Scaled a Node.js server with MongoDB integration, boosting data retrieval speed and storage by 40%.

Simple Content Delivery Network **Sep 2022 - Dec 2022**

- Elevated content delivery speed and user experience by optimizing server responses based on the client's location of the DNS server, utilizing geoip2 for precise geo-location matching.
- Lowered latency and increased bandwidth efficiency by deploying a refined caching system in the HTTP server, capable of archiving up to 20MB from the origin server.

Kill Doctor Lucky Game **Jan 2022 - Apr 2022**

- Designed and developed an engaging desktop-based GUI game using the Java Swing framework.
- Upgraded the architecture and maintainability of the system using standard object-oriented design patterns such as Model-View-Controller (MVC), Command, and Facade.
- Ensured robust testing coverage, resulting in 95% code coverage using the Test-Driven Development (TDD) approach, employing the JUnit4 framework.