Varshini Manda

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EDUCATION

M.S. Computer Science May 2023
Arizona State University, Tempe, AZ 3.6 GPA
B.Tech. Information Technology May 2021
MLRIT, Hyderabad, India 3.4 GPA

TECHNICAL SKILLS

Programming Languages: Java J2EE, Python, C, C++, SQL, Bash, Kotlin, Golang
Web Technologies: HTML, CSS, JavaScript, Bootstrap, JSON, XML, AJAX, DOM, ReactJS, AngularJS, Node.js
Frameworks: Spring Boot, jQuery, Hibernate, Flask, Django
Databases, and OS: MySQL, PostgreSQL, DynamoDB, MongoDB, Redis, Neo4j, Windows, Linux/Unix
Cloud Service Providers: Amazon Web Services (EC2, S3, CloudWatch, DynamoDB, Lambda, SQS, ECR, Elastic Beanstalk, EKS)
Tools & Others: Android Studio, Kafka, Git, Confluence, Docker, Terraform, Jenkins, Kubernetes, JIRA, Postman, Maven, JUnit

PROFESSIONAL EXPERIENCE

Accenture, Hyderabad, India: Application Development Associate **June 2021 – December 2021**

- Developed a **Java** application following **Agile** principles, to automate access provisioning involving **Active Directory** provisioning, employing **Spring Boot** for backend and **ReactJS** for frontend, reducing SLA time from 2 days to 2 hours.
- Overhauled UI using **HTML**, **CSS**, **JavaScript**, and **jQuery**, reducing load time by 20% and boosting user experience by 30%.
- Optimized **MySQL** queries using **Hibernate**, achieving 25% reduction in query execution and significantly lower latency.
- Designed, developed, and integrated **RESTful** and **SOAP Web APIs**, enhancing data exchange efficiency by 30%.
- Proficient in **Terraform** to automate the infrastructure using **HCL scripting** to integrate cloud service provider like **AWS.**
- Installed and configured **Jenkins** for Automating Builds and Deployments with integration of **Git** to automate code check-out.

Sieger Technologies, Hyderabad, India: Software Engineer **January 2020 – May 2021**

- Devised a cloud-native translation application, employing **NodeJS, AWS APIs,** and **Postman** saving $120,000 annually.
- Created a Microsoft Teams Bot for the translation app within a **microservices** architecture, utilizing **NodeJS**, **Amazon Web Services (AWS)**, **Docker**, and **Kubernetes**, resulting in a 99% reduction in translation time.
- Led the integration of our transcription system with **Five9 API** using **NodeJS**, transcribing 1000s of company voicemails.
- Deployed CI/CD pipelines with **Git, Jenkins**, **Maven**, and **Apache Tomcat**, reducing manual deployments by 50%.
- Collaborated with **Scrum** cross-functional teams, tracked project progress, and documented in **Jira** and **Confluence.**

Geneca Solutions Pvt. Ltd., Hyderabad, India: Intern **July 2019 – January 2020**

- Utilized **Python** on **Linux** for server-side integration with **Stripe API**, enhancing user satisfaction by 24%.
- Adopted various **indexing** strategies to optimize **MySQL** queries, boosting query response times by 11%.
- Utilized **Python** and **Apache Spark** data analytics solutions for real-time analysis and enhancing business insights by 35%.
- Constructed a caching system using **Redis**, reducing page load times by 40%.
- Optimized the product search algorithm by implementing **Elasticsearch**, reducing search time by 50%.

Ivy Comptech Pvt. Ltd., Hyderabad, India: Intern **August 2018 – May 2019**

- Collaborated to deploy a **RESTful API** in **Django**, empowering the analytics teams to accelerate reporting speed by 24%.
- Initiated a smooth 60% faster **migration** from legacy database to **MongoDB**, minimizing business disruptions.
- Engineered a **Kafka** pipeline, cutting data latency by 30%, accelerating analytics decision-making.
- Formulated **JUnit** test suites to assess key application modules, reducing post-release defects by 30%.

ACADEMIC PROJECTS

Auto-Scalable Face Recognition System on AWS, *Team Project* Spring 2023

- Built a face recognition system on **AWS**, managing concurrent workloads through AWS **EC2 Auto Scaling**, **CloudWatch**, **S3**, **DynamoDB**, **ECR**, and **SQS** services, orchestrating automated scale-in and scale-out operations for uninterrupted client request handling, achieving 99% uptime.

Geospatial Hotspot Analysis, *Individual Project* Spring 2023

- Applied geo-spatial analysis to identify hot zones within an extensive NYC taxi dataset, achieving a 20% efficiency boost. Formulated and executed an **Apache Spark** job using **Scala**, enabling distributed data processing, and reducing processing time by 30% on the provided dataset.

Handwritten Digit Recognition App, *Team Project* Fall 2022

- Introduced an **Android application** using **Kotlin** to accurately identify handwritten digits within images. Coordinated on designing and implementing a **machine learning** model that significantly improved detection accuracy to 99.7%.