HRUV PATFI

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GitHub

EDUCATION

San Jose State University, M.S., in Software Engineering

Coursework: Enterprise Software Platforms, Machine Learning, Cloud Technologies.

Gujarat Technological University, B.E., in Information Technology

Coursework: Data Structures, Algorithms, Operating Systems.

Sept 2022 - May 2024 California, United States May 2016 - July 2020

WORK EXPERIENCE

MarketAxess Holdings Inc. Software Engineer Intern

May 2023 - Aug 2023

Gujarat, India

New York City, United States

- Led a 7-member intern team in implementing real-time notification services for trading workstation using AWS API Gateway with WebSockets API, achieving sub-20ms latency for dealer price releases, resulting in improved client engagement.
- Built a Slack bot utilizing data from Bitbucket commits, JIRA tickets, and Confluence authors, stored as vectors in ChromaDb, integrating semantic search with GPT-3, aiming to boost employee engagement by 75% and foster cross-team collaboration.
- · Revamped logging infrastructure, configuring Logstash for log aggregation and Elasticsearch for storage, resulting in 50% faster retrieval time and improved operational agility through instant telemetry access with Kibana dashboards.
- · Integrated trade ticket feature into trading platform UI using React, Redux and AG Grid, fetching data from Kafka topics, streamlining monitoring and tracking of 400K+ executed trades quarterly by 2000+ clients, amplifying user experience.

Tata Consultancy Services Ltd. (TCS). Software Development Engineer

Jul 2020 - Aug 2022

Maharashtra, India

- · Collaborated on development of document parsing workflow, employing Computer Vision APIs, business rule engine, and ML for categorizing financial documents obtaining 98% accuracy, expediting process and reducing manual review time by 50%.
- Designed and developed caching mechanisms to optimize storage of read-intensive, business rules from NoSql DB, strategically leveraging Redis cache, resulting in 20% decrease in processing time and elevated application responsiveness.
- Empowered business users through React app for rule engine management, created Kubernetes microservices with 20+ RESTful APIs in Spring Boot framework, trimming down rule modification time by 60%, hitting 90% user adoption in 3 months, and 80% decrease in developer involvement.
- Architected and deployed Java Spring Boot-based microservices blueprint by encapsulating configurations into reusable Docker components, empowering teams to effortlessly spin off services, improving development timelines by 30%.
- · Initiated incorporation of event driven alerting solution with EventBridge, AWS SNS and Java based lambda functions to notify production support team, facilitating resolution of defects within 30 minutes leading to 45% reduction in downtime.
- Performed tabular field extraction from 10000+ price sheet documents using AWS Textract, by creating FastAPI-based dockerized API generating real-time inference, securing the API with role-based control using AWS Cognito.

(n) Code Solutions. Jan 2019 - May 2019 Software Developer Gujarat, India

- Realized 25% reduction in monthly cloud expenses by transitioning to cost optimizing solutions, leveraging JVM thread tuning, concurrent programming, auto scaling, which collectively increased utilization from 30% to over 80%.
- Co-Engineered scalable microservices-based Java backend system initially capable of handling 300 rps, through horizontal scaling with NGINX load balancer, scaling to 900 rps, marking 200% performance increase.
- Implemented 50+ unit and integration test cases with Junit and Mockito, increasing code coverage from 65% to 95%, alongside conducting performance tests with Apache JMeter under varying load conditions ensuring system stability, boosting service efficiency by 15%.

PROJECTS

Linkedin Clone | Java Spring Boot, React, REST, MongoDB, GKE, Terraform.

- Developed a scalable 3-tier web application with Linkedin-like functionalities, which involved writing backend REST API calls in Spring Boot and creating responsive frontend components in React for page handling.
- Deployed application to Google Kubernetes Engine ensuring 99.99% uptime, provisioned metric collection, alerting and monitoring on Promethues in conjunction with Google Cloud Logging for custom log collection.
- · Accelerated infrastructure provisioning by employing Terraform, resulting in automated deployment of architectural components, reducing setup time by 30%.

Review Hub | Node, React, MySQL pooling, Redux, Mocha, JMeter, Kafka, AWS, Docker.

- · Created website to crowd-source reviews about business with React, Node.js, and AWS RDS, with integration of Okta's Single Sign-On (SSO) for enhanced security and user login convenience.
- Incorporated Redux for state management, JMeter, Mocha testing for backend, Enzyme testing for frontend, enabled 20000 **concurrent users** with AWS deployment along Docker and Kafka integration.
- Improved database performance by 25% through MySQL connection pooling, facilitating multi-threaded connection reuse.

TECHNICAL SKILLS

Programming: Python, Java, C#, JavaScript, Shell Scripting.

Technologies: Azure, AWS, Blockchain, Java Spring Boot, React, Node.js, .Net Core, Docker, Kubernetes, Git, GraphQl.

Microsoft SQL Server, MySQL, MongoDB, AWS DynamoDB, Azure CosmosDB. Databases: