Chaitanya Yeole

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SUMMARY

Software Developer with Strong object-oriented programming skills in **Python**, **Java**, **JavaScript**, well-versed in **SQL** and **NoSQL** databases. Experienced in cloud technologies like **AWS**, **GCP**, and **Kubernetes**, and skilled in frameworks like **Node**, **Express**, and **React**. Proficient in automated testing and agile methodologies, while delivering scalable and high-quality solutions.

EXPERIENCE

The Research Foundation for SUNY   September 2023 – December 2024
Software Development Intern   *Buffalo, NY*

- Revamped legacy PHP framework to **modern scalable architecture**, boosting speed by 45% and enhancing engagement
- **Deployed serverless functions** using AWS Lambda, increasing system scalability, and lowering operational costs by 25%
- Implemented **multi-threaded** data export for genomic formats, increasing download speed by 82% and reducing resource usage
- Optimized database with read replicas and indexes, **reducing query response time** by 95% and enhancing performance
- **Secured user authentication** and authorization with OAuth 2.0 and JWT, boosting platform security and data protection
- Developed scalable GraphQL APIs while converting **PRDs** (Product Requirement Documents) to low-level designs
- Engineered migration scripts for **seamless data transitions** between application versions with minimal downtime

Statiq (Y Combinator S20)   January 2021 – June 2023
Software Development Engineer II   *Delhi, India*

- Spearheaded the entire **application lifecycle** of a **budget tool** to better manage, forecast, and spend R&D funds
- Devised **multi-tenant microservices platform**, enabling global EV charging access via a single app, improving uptime by 96%
- Led the entire development of WebSocket server using Python and Go, **reducing server load** by 88% and saving $1,800 per month
- Wrote Python scripts for **data migration & cleaning** between MongoDB and MySQL in distinct microservices
- Built **thread-safe** instant wallet refund feature in Python, **reducing refund processing time** from 10–14 days to 1 hour
- Integrated **third-party payment gateways**, reducing transaction time by 40% via efficient event handling and API communication
- Designed and implemented **RBAC and ABAC architecture** for EV charging dashboard, enabling secure, multi-tiered data access
- Executed a stability initiative by configuring liveness and readiness probes to enhance health checks and by **integrating the Application Performance Monitoring** and **Sentry** for better debugging and monitoring **20 Python microservices**.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript
Frameworks: Django, Flask, FastAPI, Node.js, Reactjs, REST API, SQLAlchemy
Databases: MySQL, MongoDB, Redis, Elastic Search
Cloud & Deployment: Docker, Kubernetes, AWS: Lambdas, SQS, SNS, API Gateway, S3, EventBridge
Testing, Monitoring & Logging: unittest, Postman, Sentry
Version Control & Collaboration: Git, Jira, Confluence, Scrum, Agile methodologies, Jenkins, CI/CD

PROJECTS

Single Threaded Relational Database Management System
- Built a **single-threaded RDBMS** like PostgreSQL, implementing file handling, B-tree indexing, and query processing for efficiency

Fault-Tolerant Distributed Key-Value Storage
- Built a reliable **distributed key-value storage** system in **GoLang**. Implemented the Raft Consensus algorithm to elect leaders and replicate logs, achieving consensus in leader election and log replication for a system consisting of 5 nodes.

EDUCATION

University at Buffalo, The State University of New York   August 2023 – December 2024
Master of Science in Computer Science and Engineering   **GPA: 3.88/4.0**

MIT - WPU   August 2017 – October 2021
Bachelor of Technology in Electronics and Communication Engineering   **GPA: 8.66/10.0**

RESEARCH EXPERIENCE

[1] Chaitanya Yeole, et al. (Jun 2021) **Deep Learning Techniques for Human Activity Recognition**, IJISRT

AWARDS

All India Rank 1: National Robocon 2020, ABU Robocon   June 2020
All India Rank 3: National SAVe 2019, NIOT   January 2019
All India Rank 2: National Robocon 2018, ABU Robocon   March 2018