

Ujjanth Arhan

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PROFESSIONAL EXPERIENCE

Software Engineer, DeltaX, Bangalore, India

Jun 2020 - Jun 2022

Skills: Vue.js, C#, .NET Core, ASP .NET Core, Dapper ORM, SQL Server, Microservices, CI/CD, REST API, d3.js

- **Collaborated across 5 teams** to implement **11 portals and dashboards** to measure budget allocation and campaign performance in **'Financial Operations'** module with visualization, increasing operational efficiency by 50%
- Developed **7 high-performance microservices** and **REST API endpoints** using **Test Driven Development** (TDD) for server-side validation and operations on campaigns, achieving a 25% reduction in server response time
- Engineered **efficient database schemas, SQL queries** and **stored procedures** for campaigns, budget allocation, KPI analysis and company billings, decreasing latency by 25%
- Established comprehensive **monitoring of logs** via **Kibana** and **Elasticsearch**, contributing to a 25% improvement in performance tuning and identification and resolution of critical bugs

PROJECTS

Adaptive Cloud Assignment System

Oct 2023

Skills: Go, Gin, GORM, SQL Server, DynamoDB, Lambda, AWS, GCP, Pulumi, Packer, CI/CD, REST API, GitHub Actions, BCrypt

- Architected **AWS AMI** for BCrypt secured REST API, deployed on **Auto Scaling EC2** instances driven by **SNS triggers** and policy alerts, with incoming requests filtered through **Elastic Load Balancer** leading to scalable cloud assignments application
- Integrated **Lambda** based **email notifications** to notify upload status of assignments to GCP buckets, with robust logging of the entire application with **slog** and **CloudWatch**, generating **10,000 records** enhancing visibility
- Architected Git branching for **version control** with **GitHub actions** supporting **continuous integration, continuous deployment** (CI/CD) practices with deployment times under 5 minutes

Web Socket Communication Project

Jan 2024

Skills: Go, Gorilla, Vue.js, React, WebSocket, Apache Kafka, Airflow, Terraform

- Crafted **real-time WebSocket** based chat application using Go and Kafka with **hourly backups** scheduled using Airflow
- Designed minimalistic, **user friendly interface** and experience in multiple frontend frameworks

Medical Insurance Data Indexer

Jan 2024

Skills: Java, Spring Boot, OAuth, Redis, RabbitMQ, MongoDB, Elasticsearch, Docker

- Formulated a **containerized medical insurance indexing system** in Java Spring Boot fortified with **OAuth authentication** and Elasticsearch for quick looking up of insurance plans
- Leveraged RabbitMQ **exchange based message queues** for simultaneous data feed to Redis, MongoDB and Elasticsearch **alleviating** potential **server bottlenecks** leading to decoupling and **increased system concurrency**

AWARDS AND ACHIEVEMENTS

- Won company-wide hackathon for microservices management which was subsequently integrated into production usage
- Secured 2nd place in a competition for TSP Optimization problem beating MST by 17%

SKILLS

Frontend: HTML, CSS, Javascript, Vue.js, React

Backend: C#, .NET Core, ASP.NET Core, Java, Java Spring Boot, Go, Gin, Gorilla, Dapper, Hibernate, GORM

Database: Redis, SQL Server, PostgreSQL, MongoDB, DynamoDB, Cassandra

DevOps: Jenkins, GitHub Actions, Docker, Packer, Pulumi, Terraform, Microservices

Cloud: Amazon Web Services (AWS), Google Cloud Platform (GCP), CI/CD

Other: Git, GitHub, Bitbucket, Visual Studio, Jira, Agile, Linux Ubuntu, Excel, Python

EDUCATION

Northeastern University, Boston, MA

Sep 2022 - May 2024

Master of Science in Computer Software Engineering (GPA 3.7)

Relevant Courses: Data Science, Design Patterns, Advanced Big Data Indexing

BNM Institute of Technology, Bangalore, India

Aug 2016 - Aug 2020

Bachelor of Engineering in Information Science and Engineering

Relevant Courses: Object Oriented Concepts, Python Application Programming