Ankith Aralehalli Shankar

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Graduate Student in Computer Science looking for Full Time opportunities; 4 years of Backend Development Experience

TECHNICAL SKILLS

Languages: C#, NodeJS, Python, TypeScript, SQL, Bash, HTML, SCSS, JavaScript

Frameworks: Express, ASP.NET, ASP.NET Core, Flask, React, Redux, Angular, StencilJS, Blazor

DevOps: Kubernetes, Docker, Gitlab CI/CD, Jenkins, Playwright **Databases:** Postgres, MongoDB, Neo4i, CosmosDB, Redis

Other: AWS, Azure, Microservices, Agile, gRPC, REST, Linux, Azure Service Bus, Event Hub, ELK Stack, Git, JIRA

PROFESSIONAL EXPERIENCE

Intel Corporation, Chandler, USA: Software Engineer Graduate Intern (ASP.NET Core)

May 2023 - Present

- Contributed to the development of **gRPC** services utilizing **ASP.NET Core**, **Event Hub** and **Redis** to efficiently retrieve real-time content of the jobs running in **Docker** containers
- Developed Kubernetes-based Docker virtualization software for automated testing of ASP.NET Core based Testing Simulation Software, yielding 60% reduction in testing time
- Collaborated in developing CI/CD pipelines for serverless services using Jenkins, Azure Functions and Powershell
- Conducted **load testing** of the RESTful service built using **ASP.NET Core** and performed significant optimizations that bolstered its capacity to support **multiple concurrent users** across different regions

Ideacrest Solutions: Full Stack Developer (NodeJS)

July 2020 - July 2022

Centralized Services & DevOps

- Built the Authorization Server using AWS Cognito and NodeJS which was performing SSO for 4 websites: enhanced user accessibility by 35%
- Implemented unified billing system using Stripe, NodeJS and Chargebee; automated manual payments by 80%
- Collaborated in implementing inter-service communication between **NodeJS microservices** leveraging **AWS SQS and SNS**<u>LCA Tracing System</u>
 - Led a team of **4 people**, ensuring the successful and timely completion of the project
- Build the LCA engine using **Typescript**, **Express and Neo4j** which was providing the carbon impact of fashion products Carbon Offset Order Processing Engine
- Designed carbon offset order pipeline using **NodeJS**, **AWS SQS and SNS** which was processing around **100 orders/minute** Simplizero Consumer Offsets
 - Drove development of build pipelines for NodeJS microservices utilizing Gitlab CI/CD, Docker, and AWS ECS
 - Optimized Google Page Speed of the website to 92%, which increased customer engagement by 10%

Carbon Impact & Carbon Offset Widgets

- Identified and addressed the bottleneck in impact widgets by removing the dependency of Zone.js in the **Angular web components**; improved performance by **85%** and reduced bundle size by **55%**
- Rewrote the offset widgets with StencilJS and GTM; which was incorporated by 200+ clients and had millions of visits

Zetwerk & Precept Labs: Software Engineer (NodeJS)

June 2019 - August 2020

- Enhanced the efficiency of REST APIs developed with Node.js by implementing data aggregation of store and order data stored in MongoDB, resulting in a 40% reduction in latency.
- Recommended and made design revamp of Issue Tracking Portal using Angular; optimized user experience by 25%

PROJECT

Pothole Detection System using Raspberry Pi and Deep Learning

January 2019 - April 2019

- Developed several Flask based services to fetch the pothole data, performing real-time classification of the data using the deep learning model and send data to train the model
- Utilized SVM for detection of potholes and PCA was used to reduce the features from 60 to 20

LEADERSHIP

- Teaching Assistant of CSE 445 Distributed Software Development using C# and ASP.NET for around 700 students
- Led a team of 100 people in Swachh Vidyarthi, Swachh Vidyalaya and Swachh Gruha initiative by ISKCON Foundation

EDUCATION

Arizona State University, Tempe, Arizona, USA | Masters in Computer Science | GPA: 4/4

May 2024

Coursework: Distributed Software Development, Data Structure & Algorithms, Microservices and Scalability

Dayananda Sagar College of Engineering | Bachelors in Information Science