

# Ankith Aralehalli Shankar

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

## TECHNICAL SKILLS

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

**Frameworks:** React, Redux, Angular, StencilJS (Web Components), Express, NestJS, ASP.NET, ASP.NET Core, Blazor

**Tools:** Git, JIRA, Google Tag Manager, Sequelize, Mongoose, Redis, Linux, Kubernetes, Docker, Gitlab CI/CD, Jenkins, Event Hub, ELK Stack, Playwright, PostgreSQL, MongoDB, Neo4j, CosmosDB, AWS, Azure, GCP

**Others:** Data Structures & Algorithms, Object Oriented Programming, Distributed Software Development, System Design, Microservices, DevOps, Agile, Machine Learning & Deep Learning

## PROFESSIONAL EXPERIENCE

**Intel Corporation, Chandler, USA: Software Engineer Graduate Intern**

**May 2023 - Present**

- Developed virtualization software in **Kubernetes-based Docker** containers for automated testing of new releases and performance modelling, leading to a **60%** reduction in testing efforts and **45%** lower manual calculation costs.
- Conducted comprehensive **load testing** of the application built using **ASP.NET Core and Blazor**, leading to significant optimizations that bolstered its capacity to support **100 concurrent users** across multiple regions.
- Revamped the virtualization software dashboard, using **Blazor technology**, resulting in a remarkable 35% reduction in user response time.

**Ideacrest Solutions, Bangalore: Full Stack Developer**

**July 2020 - July 2022**

LCA Tracing System

- Led a team of **4 people**, ensuring the successful and timely completion of the project.
- Developed fundamental **React** components utilized across multiple websites, resulting in **40%** reduction in code redundancy.

Simplizero Consumer Offsets

- Drove development of build pipeline and architecture for caching and routing policies for **React** applications utilizing **Gitlab CI/CD, Puppeteer, AWS Cloudfront, and S3**
- 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 widgets**; improved performance by **85%** and reduced bundle size by **55%**
- Developed the offset widgets with **StencilJS and GTM**; which was incorporated by **200+** clients and had **millions** of visits

Carbon Offset Order Processing Engine

- Implemented carbon offset order pipeline using **NodeJS** which was processing around **100 orders/minute**

Centralized Services & DevOps

- Built the Authorization Server using **AWS Cognito** which included performing SSO for **3 - 4** websites: enhanced user accessibility by **35%**
- Implemented an automated unified billing system using **Stripe and Chargebee**; decreased manual payments by **80%**
- Created the system for inter-service communication between microservices leveraging **AWS SQS and SNS**

**Zetwerk & Precept Labs, Bangalore: Software Engineer**

**June 2019 - August 2020**

- Recommended and implemented design revamp and improvement of Authentication System of Issue Tracking System; optimized user experience and system functionality by **65%**
- Performed aggregation of store and order data stored in **MongoDB**; dropped the latency by **40%**

## PROJECT

**Pothole Detection System using Raspberry Pi and Deep Learning**

**January 2019 - April 2019**

- Utilized SVM for detection of potholes and PCA was used to reduce the features from **60** to **20**
- Boosted the pothole detection by **15%** with the use of Sense-HAT Sensor and Raspberry Pi
- Presented model using an Android Application and displaying upcoming potholes, improving the driving experience by **35%**

## LEADERSHIP

- Teaching Assistant for CSE 445 Distributed Software Development for around **500 students** across different semesters
- Led a team of **100 people** in Swachh Vidarthi, Swachh Vidyalaya and Swachh Gruha initiative by ISKCON Foundation

## EDUCATION

**Masters in Computer Science**

Arizona State University, Tempe, Arizona, USA

**December 2023**

**GPA: 4/4**

**Bachelors in Information Science**

Dayananda Sagar College of Engineering, Bangalore, India

**May 2019**