

# Ankith Aralehalli Shankar

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

## TECHNICAL SKILLS

**Languages:** JavaScript (ES6), TypeScript, NodeJS, Python, SQL, Bash, HTML5, CSS3, SCSS, C#

**Frameworks:** React, Redux, Angular, StencilJS, Meteor.js, Storybook, Strapi CMS, Express, Mustache, Blazor, ASP.NET Core

**Databases:** Postgres, MongoDB, Neo4j, CosmosDB, Redis

**Other:** Accessibility, Microfrontends, Web Components, WebSockets, CSR, SSR, SSG, Webpack, Shadow DOM, Styled Components, MaterialUI, Cloudfront, AWS, Azure, GCP

## PROFESSIONAL EXPERIENCE

### Zetwerk & Precept Labs: Frontend Developer

June 2019 - August 2020

- Recommended and made design revamp of Issue Tracking Portal using **Angular**; optimized user experience by **25%**
- Developed a robust chat system utilizing **React, WebSockets, and Meteor.js**, proficiently managing concurrent conversations for thousands of customers and merchants.

### Ideacrest Solutions: Full Stack Developer (Frontend)

July 2020 - July 2022

#### LCA Tracing System

- Led a team of **4 people**, ensuring the successful and timely completion of the project
- Coded fundamental **React** components utilized across multiple websites, resulting in **40%** reduction in code redundancy
- Introduced **React Microfrontends** to the project and worked on setting up the codebase and the build pipelines, resulting in seamless collaboration and separate reducing the interdependency between different part of the frontend

#### 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

#### Simplizero Consumer Offsets

- Drove development of build pipeline and architecture for caching and routing policies for **React** applications utilizing **Gitlab CI/CD, Puppeteer, Docker, AWS ECS, Cloudfront, and S3** utilizing **Static Site Generation**
- Optimized **Google Page Speed** of the Angular website to **92%**, which increased customer engagement by **10%**

#### Centralized Services & DevOps

- Built the Authorization Server using **Mustache, AWS Cognito, 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**

### Intel Corporation, Chandler, USA: Software Engineer Graduate Intern (Frontend)

May 2023 - Present

- Worked on frontend of virtualization software dashboard, using **Blazor**
- Developed **Kubernetes-based Docker** virtualization software for automated testing, yielding **60%** reduction in testing time
- Introduced **Test Driven Development and Automated Testing** of the **frontend applications** using **Playwright** which made the development process robust and helped in reducing the bugs by **30%**
- Collaborated in developing **CI/CD pipelines** using **Jenkins, Azure** and **Powershell** for ASP.NET Core services

## 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**
- Presented model using **React** Application and displaying upcoming potholes, improving the driving experience by **35%**

## 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 Vidarthi, 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

May 2019

Coursework: Object Oriented Programming, Database Management System and Machine Learning