# Ankith Aralehalli Shankar

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

## EDUCATION

**Arizona State University, Tempe, Arizona, USA | Masters in Computer Science | GPA: 4/4**                    **May 2024**
Coursework: Software Verification, Validation and Testing, Data Structure & Algorithms, and Microservices
**Dayananda Sagar College of Engineering | Bachelors in Information Science**                    **May 2019**
Coursework: Object Oriented Programming, Database Management System and Machine Learning

## TECHNICAL SKILLS

**Languages:** Python, Bash, Groovy, SQL, JavaScript, TypeScript, C#, NodeJS
**Frameworks:** Playwright, Selenium, JMeter, xUnit, Browserstack, Lighthouse, Cypress, React, ASP.NET Core
**DevOps:** Jenkins, Docker, Kubernetes, Gitlab CI/CD, Splunk, Prometheus
**Databases:** Postgres, MongoDB, Neo4j, CosmosDB, Redis
**Other:** AWS, Azure, GCP, Microservices, Agile, gRPC, REST, Linux, Kafka, Git, JIRA

## PROFESSIONAL EXPERIENCE

**Intel Corporation, Chandler, United States: Software Engineer Graduate Intern (Test Automation)**          **May 2023 - Present**
- Wrote **Playwright** scripts for automated UI testing, achieving an extensive coverage of 90% of elements
- Developed **xUnit** test cases for ASP.NET Core services, ensuring comprehensive code coverage
- Worked on end-to-end testing scripts utilizing **gRPC** requests, resulting in a 45% reduction in reported production bugs.
- Designed **Kubernetes-based Docker** virtualization software to automate testing for new releases and compute key metrics before executing production lots in the factory, resulting in 60% reduction in testing time.
- Worked on triggering the **Docker compose** scripts from **Jenkins** pipeline to perform end-to-end testing of the Skyline core stack using Playwright
- Performed **load testing** on ASP.NET Core backend service, identifying bottlenecks impacting **concurrent connections**.

**Ideacrest Solutions: Full Stack Developer (Test Automation)**                    **July 2020 - July 2022**
Simplizero Consumer Offsets
- Conducted UI performance testing using **Lighthouse and Cypress**, integrated with GitLab CI/CD pipelines to ensure standard adherence and eliminated customer latency concerns.
- Carried out **JMeter-based load testing** on offset processing engine, ensuring optimal response times under peak loads.
- Integrated **automated email reporting** on failed unit and end-to-end test cases within **Gitlab CI/CD** builds.
- Proficient in providing expedited **production support** and **prompt issue resolution** for customers.
- Developed the test scenarios for evaluating the service responsible for consuming messages from the **AWS SQS stream**.
LCA Tracing System
- Led a team of **4 people**, ensuring the successful and timely completion of the project
- Took the responsibility of taking the **handoff from the product managers** and handling the **release management**.
- Performed **smoke, sanity, exploratory and regression** test executions in the project's initial phase
- Expert in creating **Requirement Traceability Matrix** for rigorous validation of test case alignment with specified requirements.
Carbon Offset Order Processing Engine
- Automated mission-critical customer-facing website UI testing with **Selenium**, ensuring robust builds.
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%**

**Zetwerk & Precept Labs: Software Engineer**                    **June 2019 - August 2020**
- Performed aggregation of store and order data stored in **MongoDB**; dropped the latency of the APIs 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 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