

# Akhil Charugulla

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[Github](#) [LinkedIn](#) [Portfolio](#)

## Work Experience

### Software Engineer, Copart – Dallas, Texas

JAN 2024 – Present

- Created **15+** responsive Angular UI components based on Figma designs, using PrimeNG and SCSS, ensuring compatibility with AngularJS for legacy systems and enhancing user engagement by **20%**.
- Broadcasted events to Google Analytics (*GTM*), leading to a **35%** increase in actionable insights. This enabled the marketing team to refine campaign targeting strategies, driving a **20% increase** in product sales.
- Delivered timely fixes for **10+** critical defects each week through a structured weekly release cycle, ensuring **100% SLA** compliance and elevating customer satisfaction.
- Revamped Lot Details pages for legacy application to **Angular14**. Leveraged Angular, TypeScript, HTML, CSS, Spring Boot, Bootstrap, REST API's, and MySQL, resulting UI enhancement & functionalities for the clients.
- Performed UI automation with a **BDD framework** for the Copart website, achieving a **40% defect reduction** through end-to-end testing, improving application reliability and accelerating release cycles.
- Executed comprehensive **A/B testing** for UI optimization, managing 20+ concurrent experiments across 10K+ users, resulting in 15% increase in feature adoption through data-driven decision making.

### Software Engineer, Oracle Cerner – Bengaluru, India

JAN 2020 – JAN 2023

- Incorporated server-side rendering using **Thymeleaf** in an Angular application, reducing initial page load time by 25% and achieving a 15% performance boost, enhancing SEO, and user satisfaction.
- Implemented lazy loading techniques and Webpack code splitting to load components on demand, improving website performance by 3%. This enhanced user experience with faster access to information.
- Addressed **HP-Fortify**, **SonarQube** vulnerability issues, enhancing code quality by **30%** and reducing security risks. Utilized **Splunk** to visualize logs, enabling proactive monitoring and rapid issue identification.
- Configured servers with NGINX, established **reverse proxy** for multiple SpringBoot services, and deployed applications on AWS EC2 instances, delivering **20%** faster request processing.
- Engineered a feature, Visit List Filter Queue, which prioritize the patient encounters based on their appointment dates and emergencies and integrated it into Revenue Cycle.
- Migrated Api's from synchronous to asynchronous using **Spring Reactive** Programming which optimized performance of system by 50% and deployed them using Jenkins pipeline for Continuous Integration and Delivery.
- Delivered **APIs** for fetching EHR data to Cerner Revenue Cycle resulting in a 30% increase in order processing efficiency.

### Software Engineer Intern, Collins Aerospace – Hyderabad, India

AUG 2019 – DEC 2019

- Developed object-oriented **Fullstack** Applications using **Java8** functional programming, adhering to SOLID principles and implementing design patterns.
- Achieved 85%+ coverage with JUnit tests, leveraged Postman for backend testing, and contributed to code reviews
- Worked on **Jira integration**, where the data in Excel is parsed and corresponding Jira's are updated, resulting in a 75% increase in communication, collaboration, and adoption across cross-functional teams.
- Built an automation tool named Bidirectional Trace Validation, which crawls the JAMA & SVN websites to capture the requirement numbers, significantly reducing the team's manual effort by **30 hours during release activity**.

### University of North Texas, IT Website Developer – Denton, Texas

- Spearheaded Library portal's authentication architecture using Spring Boot microservices and JWT tokens, delivering 35% enhanced security while maintaining seamless user experience.

## Technical Skills

- Languages:** Java, C++, JavaScript, ES6+, TypeScript, Nodejs, Python
- Databases:** Oracle, MySQL, MongoDB, Redis, Solr
- Frameworks & Tools:** Spring, Spring Boot, Angular, ReactJs, ExpressJs, Cucumber, Git, GitLab, Svn, Jira, HP-Fortify, ServiceNow, Jenkins, Postman, Tomcat, Kibana, Urban Code Deploy, Kubernetes, SonarQube, MS-Office
- Knowledge In:** Maven, Gradle, Spring Security, OAuth2, Splunk, Swagger, Microservices, Kafka, RabbitMQ, Docker, Selenium, Json, Rest Api, GraphQL, gRPC, Xml, Html, Css, SASS, Agile, Bootstrap, Drupal, Thymeleaf, Aws, CI/CD

## Projects

- Streamlining Campus Dining** ([Github](#))([Devpost](#)) | Java, Spring Boot, RestApi, ReactJs  
Developed a fullstack website for students to register, block tables, pre-book meals, display items & prices, Add to cart option.
- Etsy Clone** | Angular, Java, Kafka, MongoDB  
Created a scalable, production-level Order Management microservice using Java, Spring Boot, MongoDB and Kafka, directly processing real-time customer orders, ensuring inventory accuracy and enabling efficient procurement.
- Todo Management System** ([Github](#))([Youtube](#)) | Angular, Java, Springboot, RestApi  
Designed and developed a Todo management web application, utilizing Angular for the frontend, Springboot for the backend, and Sql for efficient data storage.
- Transmission Line Detection System** | Python, Matlab, Discrete Wavelet Transform, Machine Learning  
A project to utilize modern techniques to detect the transmission lines aiding in aircraft landing.

## Education

University of North Texas, Denton, Tx (Masters in Computer Science), CGPA: 3.70/4

JUL 2024

Sastra University, Tamil Nadu, India (Bachelors in Computer Science), CGPA: 3.72/4

MAY 2020