

Akhil Charugulla

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Experience

Software Engineer Intern, Copart – Dallas, Texas

JAN 2024 – Present

- Involved in G2M and MCS teams, for feature delivery which involved full-stack development.
- Part of defect pod which was responsible for doing critical bug fixes and deliver in short time (weekly releases) resulted in **40%** reduction in escalation tickets.
- Executed secure license uploads & robust search feature, leveraging Angular, TypeScript, RESTful Api's & Spring Boot.
- Created and customized **15+** dynamic Angular components and downgraded them to utilize in AngularJS pages.
- Communicated with other microservices and placed responses on the Kafka and consumed them wisely.
- Generated **BDD** automation scripts for UI and performed E2E tests which reduced **defects by 60%**.
- Revamped **Lot details** pages for legacy application, enhancing UI & functionalities thereby improving customer satisfaction.
- Broadcasted events to **Google Analytics (GTM)** when users interact with various elements on the website. This assists the marketing team understand how consumers spend time and focus on items on the website.

Software Engineer, Oracle Cerner – Bengaluru, India

JUL 2020 – JAN 2023

- Worked on spike, stories and defects for the product Revenue Cycle which involved assessing the interaction between multiple systems and API/design changes, which were required to implement new features.
- Addressed **HP-Fortify**, **SonarQube** vulnerability issues, improving the code quality product by 30%.
- Designed and developed a feature Visit List Filter Queue, which prioritizes the patient encounters based on their appointment dates and emergencies and integrated it into Revenue Cycle.
- 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.
- 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.
- Performed unit testing using Junit, Mockito with **80%+ coverage** and participated in internal and external code reviews.
- Delivered **APIs** for fetching EHR data to Cerner Millennium resulting in a 30% increase in order processing efficiency.
- Implemented Swagger for documentation of REST APIs, significantly improving clarity & standardization.
- Accelerated performance of the **SQL** queries by **2x** times by automating tasks composing Stored procedures.
- Utilized Java-8 functional programming to develop Object-Oriented Applications, REST API, while following SOLID principles and implementing Design Patterns.

Software Engineer Intern, Collins Aerospace – Hyderabad, India

DEC 2019 – JUN 2020

- Built an automation tool named Bidirectional Trace Validation, which crawls the JAMA & SVN websites to capture the requirement numbers, significantly reduced the team's manual effort by **30 hours during release activity**.
- Day To Day Work:** Worked with Flight Management System and Flight User Interface teams mostly improving the consistency and efficiency of enterprise application and involved in Continuous Build and Test (CBT)

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

- Collaborated with the university's IT department to implement new features and fixed defects for the Library Website.

Technical Skills

- Languages:** Java, C++, JavaScript, TypeScript, Nodejs, Python, C#
- Databases:** MySQL, MongoDB, Redis, Solr
- Frameworks:** Spring, Spring Boot, Angular, ReactJs, ExpressJs, Cucumber
- Knowledge In:** Maven, Gradle, Spring Security, Jpa, Splunk, Swagger, Hibernate, Microservices, Kafka, Docker, Selenium, Linux, Json, Rest Api, GraphQL, gRPC, Xml, Html, Css, SASS, Agile, Bootstrap, Jsp, Drupal, Thymeleaf, AWS
- Other Tools:** Git, GitLab, Svn, Jira, Putty, HP-Fortify, ServiceNow, Jenkins, Postman, Eclipse, STS, IntelliJ, Visual Studio, PyCharm, Tomcat, Kibana, Scalyr, Urban Code Deploy, Spinnaker, Kubernetes, SonarQube, Crucible, MS-Office

Projects

- Transmission Line Detection System** | Python, Matlab, Discrete Wavelet Transform, Machine Learning
A project to utilizing modern techniques to detect the transmission lines aiding in aircraft landing.
- Streamlining Campus Dining** | Java, Spring Boot, RestApi, ReactJs
A website for students to register, block tables, pre-book meals. (display items & prices, Add to cart option)

Achievements/Competencies

- Recognized as "**Star of the Quarter**" at Oracle Cerner for excellent performance and project delivery.
- Recipient of the National Scholarship Scheme and subject topper in VLSI and Mathematics.

Education

University of North Texas, Denton, Tx (Masters in Computer Science)

JUL 2024

Sastra University, Tamil Nadu, India (Bachelors in Electronics & Communication Engineering)

JUL 2020