Akhil Charugulla

charugullaakhil@gmail.com | +1 (940) 218-7494 | 1408 Teasley Ln, Apt-214, Denton, Tx 76205
Github   LinkedIn   Portfolio

Work Experience

Sr Software Engineer – Comcast, Philadelphia   *MAR 2025 – Present*

- Delivered fixes for 10+ critical defects through weekly releases, achieving **80%** SLA compliance.
- Implemented RESTful APIs with Kafka as a messaging backbone to sync inventory updates in real time. Inventory changes trigger **Kafka** events and broadcast to subscribed services, ensuring all user sessions displayed up-to-date listings instantly.
- Deployed the applications on **AWS EC2**, setting up **CloudWatch** for real-time monitoring and managing scheduled tasks with cron jobs to maintain optimal performance and reliability.
- Engineered high-performance Spring Microservices and Batch applications, reducing data loading times by **50%** through advanced techniques such as parallel processing and partitioning.

Software Engineer, Copart – Dallas, Texas   *JAN 2024 – FEB 2025*

- Revamped legacy Lot Details pages and developed 15+ responsive UI components in **Angular 14** based on Figma designs. Leveraged TypeScript, Bootstrap, and MySQL resulting in 20% increased user engagement from clients.
- Integrated Kafka for real-time event streaming, enabling seamless communication between microservices and improving system responsiveness by **25%**
- 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.
- 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.
- Migrated APIs from synchronous to asynchronous using *Spring Reactive* Programming optimizing system performance by **50%** and deployed them using Jenkins pipeline for Continuous Integration and Delivery.
- Addressed *HP-Fortify, SonarQube* vulnerability issues, enhancing code quality by **30%** and reducing security risks. Utilized *Splunk* to visualize logs, enabling continuous monitoring and troubleshooting.
- Configured servers with NGINX, established **reverse proxy** for multiple Springboot services, and deployed applications on AWS EC2 instances, delivering **20%** faster request processing.
- 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 **full-stack** 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 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   *MAR 2023 – AUG 2023*

- 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, Python
- **Databases:** Oracle, MySQL, MongoDB, Redis, Solr
- **Frameworks & Tools:** Spring, Spring Boot, Angular, ReactJs, Nodejs, ExpressJs, Cucumber, Github, GitLab, Svn, Jira, ServiceNow, Jenkins, Postman, Tomcat, Kibana, Urban Code Deploy, CI/CD, 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

Projects

- **Streamlining Campus Dining (Github)(Devpost)** | Java, Spring Boot, RestApi, ReactJs
  Developed a website for students to register, block tables, pre-book meals, display items & prices, Add to cart option.
- **Paw Finder (Github)(Website)** | Angular, Java, Kafka, MongoDB
  A puppy discovery and matching web application enabling users to explore a curated selection of puppies, apply dynamic search, advanced filters (by breed, age and size) and customizable sorting options, and receive personalized match recommendations
- **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 (Master's in Computer Science), *CGPA: 3.70/4*   *JUL 2024*
Sastra University, Tamil Nadu, India (Bachelor's in Computer Science), *CGPA: 3.72/4*   *APR 2020*