Prakyath Kolla

Full Stack Java Developer

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EDUCATION

MSc in Information Systems, **CGPA 3.77** | University of Maryland Baltimore County | 2021 – 2022

- **Modules:** Artificial Intelligence, Data processing, Predictive Analytics, Big Data
- **Capstone/Dissertation:** Hospital Database Management System
  The Hospital Database Management System (HDBMS) is a software solution designed to streamline and enhance the management of hospital operations. This system aims to integrate various aspects of hospital management, including patient records, staff schedules, inventory management, billing, and more. By centralizing data and automating processes, the HDBMS improves efficiency, accuracy, and accessibility of information, thereby enhancing patient care and operational efficiency.

BA in Mechanical Engineering, CGPA 8.42 | GRIET | 2016 – 2020

- Modules: Data Structures & Algorithms, C, C++, Java

WORK EXPERIENCE

Full Stack Java Developer | TIAA | Jun 2022 – Present | North Carolina, USA

- Supervised and supported five critical applications, including ETL jobs, analyst Dashboards, and live business user dashboards, ensuring 99.9% uptime and enhancing efficiency by 30%.
- Transitioned data workflows to AWS Cloud, modernizing infrastructure using Docker, Kubernetes and OpenShift and cutting operational costs, resulting in a 30% efficiency boost and a 40% reduction in hardware expenses.
- Developed SPAs with VueJS, leveraging Router and Vuex for state management to create dynamic and responsive single-page applications, enhancing UX by 30% and improving application usability.
- Crafted responsive UIs migrating it to Angular 11 and Bootstrap from VueJS, providing a seamless user experience across multiple devices and improving cross-device user experience by 35%, thereby increasing user engagement.
- Architected microservices architecture with Spring Boot and RESTful services reducing development time for new features by 5 hours and increasing team productivity by 35%.
- Architected a multi-tiered J2EE application using Spring MVC, incorporating design patterns such as MVC for the Presentation Layer, DAO for the Data Access Layer, and Business Delegate for the Business Layer. This structured approach improved maintainability and scalability by 30%.
- Designed and implemented RESTful APIs, configuring endpoint URLs and integrating them with the application services. Utilized Spring MVC to handle requests and ensure seamless communication between the front-end and back-end.
- Leveraged Postman for comprehensive API testing, executing GET, PUT, POST, and DELETE requests to validate the functionality and reliability of RESTful services.
- Capitalized on Spring Security for role-based authentication, integrating with Ping Access and Ping Federate to implement robust authentication and authorization mechanisms enhancing user login security ensuring secure access control.
- Engineered Java frameworks with lambda expressions and multi-threading, enhancing data processing efficiency and boosting performance by 50%, enabling faster computations and data analysis.
- Decommissioned Hadoop and migrated historical data to Snowflake, enhancing storage efficiency and scalability by 40%. Employed Binlog reader for capturing SQL table changes, transferred data to AWS-S3 Bucket, and loaded it into Snowflake tables. Configured ETL jobs using Quartz Scheduler to automate data migration and performed comprehensive validation against Hadoop data, ensuring high data integrity and

reliability.

- Automated Docker image builds and deployments using Jenkins, accelerating the deployment process, reducing manual intervention by 3 hours, and facilitating faster release cycles by 60%.
- Created unit tests using modern frameworks such as JUnit and Mockito for Java, and Jest and Mocha for JavaScript, ensuring code reliability and preventing defects. Achieved 90% code coverage, which significantly enhanced the robustness and reliability of the services provided.

Full Stack Java Developer | Next Set Software | Jul 2019 - Jul 2021 | Hyderabad, India

- Led and mentored a team of 8 developers through SDLC tasks using Rational Unified Process (RUP), improving team efficiency by 30% and accelerating project delivery by 25%.
- Architected the web-tier for a 50-page enterprise application using HTML, JSP, Servlets, Spring MVC framework, enhancing user experience and performance by 40%.
- Crafted dynamic full stack web application using MERN Stack with HTML5, Express.JS, ReactJS, Redux, NodeJS, CSS, TypeScript, and MongoDB, boosting user satisfaction by 35%.
- Incorporated Redux with React to manage large data sets, improving application performance by 45% and developing scalable micro and macro components for future use.
- Implemented React container and presentational components (as Stateless and Functional components when applicable). Implemented stable React components and stand-alone functions to be added to any future pages.
- Utilized Spring Framework's lightweight container for inversion of control (IOC) and configured Spring for JwtTokenProvider and JwtFilter, enhancing security by 30%.
- Streamlined RESTful APIs using Express.js, streamlining data delivery to the front end by defining routes, handling HTTP requests, and managing data operations, which improved data processing efficiency by 25%.
- Applied Mongoose, an ODM library, to model application data in MongoDB, including defining schemas and enforcing schema validation, enhancing data integrity and consistency by 30%.
- Deployed backend servers (Node.js and Express.js) on AWS and React applications on Netlify, leveraging cloud services to improve application scalability and reliability, resulting in a 20% reduction in deployment issues.

LANGUAGES AND SKILLS

- **Languages:** English (advanced proficiency)
- **Skills:** HTML, CSS, Bootstrap, Typescript, ReactJS, Redux, Angular, Spring Boot, Spring MVC, Spring Data JPA, Hibernate ORM, NodeJS, Java 8, Java 11, Python, C++, JavaScript, SQL, Vue.JS, IntelliJ IDEA, Eclipse, Visual Studio Code, RESTful, SOAP, WSDL, WADL, Swagger Open API, MongoDB, PostgreSQL, MySQL, Rest API, Amazon RDS, Oracle, MariaDB, Jenkins, Cloud Bees, JUnit, Mockito, JTest, Mocha, AWS (EC2, S3, Route 53, Cloud Watch, Cloud Trail, AWS Lambda), Docker, Kubernetes, OpenShift4, Apache Tomcat, Jira, Git, GitHub, GitLab, SonarQube, POSTMAN, Checkmark, ServiceNow, SOAPUI, Windows, Linux, Snowflake, Hadoop, Splunk, JFrog, Maven, Gradle.