SANDEEP KUMAR BANUKA

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https://sandeepbanuka.github.io/portfolio/

EDUCATION

University of Missouri at Kansas City, Missouri   Aug 2022 – Dec 2023
Master of Science in Computer Science   3.8
Data Structures and Algorithms, Operating Systems, Distributed Computing, Databases, Big Data, Machine Learning

Osmania University, Hyderabad, India   Sep 2014 – May 2018
Bachelor of Engineering in Information Technology   8.64

TECHNICAL SKILLS

Languages:	JavaScript, Typescript, Java, Python, CI CD
Databases:	Oracle SQL, MySQL, MongoDB
Web Technologies:	HTML5, CSS3, Angular, React JS, Node JS, Express JS, Mongoose, Next JS, Django, Nest JS, Spring, Spring Boot, Material UI, AWS, GCP, Azure, Bootstrap, Charts JS, Jest, React Testing Library, Redux, Flux, jQuery, NGRX, Hibernate, JDBC, Babel, NPM, Webpack, REST, Docker, Kubernetes, Splunk, JSON, XML, NGINX, WCAG, Redis, Kendo UI, Graph QL, Enzyme, TDD, ECMA Script 2015+, SQL, No SQL, Mongo DB, PL SQL, My SQL, Data structures and Algorithms, OOPS, Design Patterns
Tools:	GitHub, SVN, Bitbucket, Gitlab, Jenkins, JIRA, Eclipse, VS Code, SonarQube, Swagger, Confluence

WORK EXPERIENCE

Senior Software Engineer – Accolite Digital   May 2023 – Present

- Closely collaborated with the product owner to gather the requirements and plan the sprints.
- Maintained the state of the application using Redux and implemented it across multiple applications.
- Worked on a POC for micro frontend and integrated multiple pages of React JS and Angular.
- Worked on hooks such as usestate, useeffect, usereducer, usememo, usecallback, useref and written multiple custom hooks.
- Worked with context api and redux state management for efficient data management in the application.
- Worked on backend API integration with axios and fetch library.
- Written applications using multiple CSS frameworks such as Material UI, Tailwind CSS, Bootstrap, Media Queries for responsiveness.
- Worked on Next JS Application and Implemented SSR, ISR, SSG, Image optimization, Font Optimization and Turbopack for building and executing the code.
- Effectively developed multiple microservices to expose the contents to the front-end systems for integration.
- Developed a SaaS application to manage the content displayed on the websites with 2 different workflows to manage all contents.
- Developed multiple microservices using Node JS and implemented a logging framework to log all the request and response data to Splunk server.
- Worked with D3.js and Charts.js for charts and visualizations. Used Electron.js for developing web based and desktop applications.
- Worked with Spring boot microservices, Spring JPA, Hibernate and with both SQL and No SQL Databases such as SQL, My SQL, Mongo DB, Dynamo DB.
- Have strong experience in Kafka & Rabbit MQ Messaging technologies for implementation of Producer – Consumer Pattern.
- Optimized the performance of React Application and decreased the loading time of the application.
- Worked with logging framework such as log4j and Java util logging. Worked on unit tests using Mockito and Junit.
- Written multiple micro services and maintained them to integrate to different systems.
- Implemented logging framework to log different levels of errors in the application.
- Extensively used redux and redux saga for the state management of the application.
- Enabled a logging framework to keep track of all the data sent to APIs and all data coming from the API.
- Authored all the flows in the application to confluence, this helped the new team members to onboard the project easily.
- Worked on unit testing of React JS and Angular application using Jest, Jasmine framework.
- Designed, developed and unit tested multiple components, modules, pipes, directives, custom hooks, higher order components.
- Worked on multiple REST microservices with Spring Boot with Mongo DB as the backend database.
- Have experience working on service now platforms and working on multiple workflows.
- Developed and maintained web applications using Python and the Django framework.
- Designed and implemented scalable and efficient database models using Django ORM.
- Integrated third-party APIs to enhance application functionality and improve user experience.
- Created RESTful APIs for seamless communication between frontend and backend systems.
- Implemented user authentication and authorization systems to ensure data security and privacy.
- Optimized application performance through query optimization and caching techniques.
- Collaborated with frontend developers to integrate server-side logic with user interfaces.
- Conducted code reviews to ensure code quality, adherence to best practices, and maintainability. Possesses API development

experience, showcasing a strong understanding of backend responsibilities.
- Reduced code duplication in the code from 18% to 0.6%, code smells from 160 to 0 in the SonarQube.

Senior Software Engineer - Accolite Digital (Client – T-Mobile, Verizon)   July 2019 – Aug 2022
- Organized more than 100 code reviews sessions and actively participated in troubleshooting and resolving incidents.
- Extensively worked with unit testing frameworks such as jest, enzyme, jasmine, and karma.
- Experience in Software Engineering and Web Application Development, with a focus on leadership responsibilities.
- Extensively used on react hooks and context for managing the state of the application.
- Built 20+ custom hooks and custom component and improved reusability.
- Implemented continuous integration and deployment pipelines for efficient and automated software delivery.
- Utilized Django's built-in testing framework to write unit and integration tests, ensuring robust and reliable software.
- Troubleshooted and resolved bugs, improving application stability and user satisfaction.
- Worked closely with cross-functional teams to gather requirements and translate them into technical specifications.
- Contributed to the open-source community by participating in Django forums, reporting issues, and submitting pull requests.
- Stayed updated on the latest Django releases and incorporated new features and improvements into existing projects.
- Implemented rigorous unit testing practices, leveraging frameworks such as Jest, React Testing Library, Mocha, and Chai, ensuring the reliability and stability of codebase.
- Orchestrated seamless CI/CD processes with Jenkins, optimizing development workflows and accelerating project delivery timelines.
- Demonstrated a profound understanding of web services, components integration, Cookies, headers, and server-to-server communication, contributing to the robustness and reliability of the system.
- Demonstrated expertise in responsive web UI best practices, ensuring optimal user experiences and accessibility.
- Followed mobile first approach to developing UI and the applications, used media queries a responsive design extensively.
- In-depth knowledge of DevOps principles, implementing Continuous Integration and Continuous Delivery best practices using tools such as Jenkins, Nexus, Maven, Gradle, GitHub, SonarQube, and Ansible.
- Served as the front-end expert on the engineering team, leveraging 5+ years of engineering experience to deliver exceptional user experiences. Worked on a POC for micro frontend and integrated multiple pages of React JS and Angular.
- I have experience working with Figma, Sketch, Adobe XD, and Photoshop.
- Mentored a team of 6 in the project and 4 summer interns and directed them to build 2 new projects.
- These applications deal with the complete ordering system of T-Mobile. This application includes 4 different modules.
- Integrated 6 channels to the checkout application and handled $25 million business.
- Written around 600 test cases and increased the test coverage from 20% to 95%.
- Directed a team in the integration of 3 new channels to the application.

Software Engineer - Accolite Digital (Client – T-mobile)   July 2018 – June 2019
- Proactively engaged in Browser performance and optimization, addressing critical aspects to enhance user experience and responsiveness.
- Applied a product engineering mindset, collaborating closely with product managers and designers, translating conceptual ideas into efficient and impactful technical solutions.
- Actively contributed to a dynamic development environment, consistently staying abreast of emerging technologies and industry best practices.
- Developed multiple RESTful services using Spring Boot, worked on micro services communication and different use cases.
- Implemented Kafka messaging broker for communication. Worked on unit tests to improve code coverage from 35% to 92%.
- Applied object-oriented methodologies and design patterns to develop software solutions, focusing on writing modular, scalable, and maintainable code.
- Written multiple middleware and unit test cases in Express JS to test the code and improve coverage.
- Extensively worked with mongoose library and integrated to the mongo DB, used Prisma ORM for data management in APIs.
- Authored all the flows in the application to confluence, this helped the new team members to onboard the project easily.
- Written multiple CRON Jobs to create reports and new triggers.
- Displayed a strong understanding of browser performance, debugging, and optimization techniques to ensure a smooth user experience.
- Authored all the flows in the application to confluence, this helped the new team members to onboard the project easily.
- Worked on unit testing of React JS and Angular application using Jest, Jasmine framework.
- Maintained documentation for codebase, APIs, and project architecture for knowledge sharing.
- Conducted performance profiling and used React Native Debugger to identify and resolve issues.
- I worked extensively on web accessibility, performance enhancement and code refactoring.

Software Engineer Intern – Accolite Digital (Client – Microsoft)   Dec 2017 – May 2018
- Developed a CMS (Content management system) to manage all the content of all websites in the organization.
- Exposed APIs to serve this content to all the websites and defined multiple scenarios.
- Familiarity with React UI Framework, Angular 2+, highlighting a commitment to staying current with industry tools and technologies.
- Successfully developed production-quality, client-facing applications, showcasing a dedication to delivering high-value solutions.
- Experience with AWS and Azure, demonstrating a broad skill set in diverse technological ecosystems.
- Competence in OAUTH 2.0, emphasizing a strong understanding of secure authentication and authorization protocols.

- Implemented lazy loading and opted other mechanisms and improved the performance of the website by 200%

ACADEMIC PROJECTS

College technical fest portal
- Languages: HTML, CSS, JavaScript, Angular for front end. Java, Spring Boot, MySQL for backend.
  Website: A portal to help notify fest announcements and tracking all the data of participants and winners of individual events.

Hackathon | Garage
- Participated in Code for Good Hackathon by JPMC while in my final year of bachelors.
- Conducted 3 workshops on Angular/React/NodeJS for junior developers and interns while at Accolite
- Mentored a team of 4 and implemented a Content management tool for maintaining all the contents of different websites.