SAI OOTEJ REDDY BACHAPALLY

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EDUCATION

University of Central Missouri   **January 2023 - December 2024**
Master's, Computer Science   *GPA: 4*
- Design Analysis and Algorithms, Cloud Computing, Advance Software Engineering, Advance Computer Networking Security

M S Ramaiah Institute of Technology   **August 2017 - July 2021**
Bachelor's, Computer Science   *GPA: 7.96*
- Data Structures & Algorithms, Web Development, Database Management Systems

PROFESSIONAL EXPERIENCE

National Payments Corporation of India   **Hyderabad, Telangana, India**
Associate Full-Stack Blockchain Developer   *August 2021 - January 2023*
R-CBDC: Central Bank De-centralized Currency (Retail E-Rupee)
- Played a pivotal role as a core member of the development team responsible for building a token-based blockchain currency.
- Developed Node.js RESTful APIs using typescript to integrate Hyperledger Fabric blockchain using Fabric Gateway API.
- Implemented APIs to store blockchain-endorsed metadata in Scylla DB, leveraging its high-performance capabilities for faster data retrieval.
- Developed Golang smart contracts for Hyperledger Fabric, enabling transparent and immutable transactions.
- Implemented AES algorithm in Java to decrypt the android device binding details to verify the details of the user mobile.
- Implemented Kafka with SSL properties for asynchronous data processing.
- Developed UI components for Central Bank and member banks using React, boosting performance by **10%** through lazy loading, debouncing, and optimizing redundant renders, enhancing responsiveness.
- Containerized applications using Docker, creating images and deploying them on virtual machines to establish separate test, production, and development environments.
- Developed Groovy-based automated API tests and Katalon test suite for executing multiple automated scenarios.

Precisely   **Noida, Uttar Pradesh, India**
Associate Software Engineer   *March 2021 - June 2021*
- Worked on CTO Dashboard Data Extraction project, overseeing data retrieval and analysis for informed decision-making.
- Wrote Python scripts to extract JIRA data via APIs. Used NumPy and Pandas for data extraction and framing from Excel.
- Developed Python Flask APIs to store Excel data in MySQL database.

PROJECTS & OUTSIDE EXPERIENCE

SMART-STREAM   **Overland Park, KS, USA**
                                                                        January 2024 - January 2024
- Smart-Stream is a GPT-powered Netflix UI clone application developed using React.js, Tailwind CSS, and Redux Toolkit.
- The application prioritizes user security by implementing robust user authentication through Google Firebase.
- Leveraged Redux Toolkit for efficient state management, adopting a modular approach for implementation.
- Integrated a GPT-powered search feature, allowing users to effortlessly seek movie suggestions.

DND Kanban   **Overland Park, KS, USA**
                                                                      October 2023 - November 2023
- Created a Full-Stack React Spring Boot Kanban application that incorporates a user-friendly drag-and-drop interface.
- This application empowers users to efficiently organize their tasks by seamlessly moving them across boards.
- Enabled users to create tasks, assign story points, and assign specific tasks to designated application users.
- Used JWT Authentication for the secure login and logout of the user.

SKILLS

Programming & Web Services: TypeScript, Java, Python, Go, JavaScript, Groovy, SQL, RESTful APIs, Apache Kafka
Frontend Technologies: React.js, redux-toolkit, Tailwind CSS, React Query, CSS Flexbox, shadcn
Databases & Blockchain: MongoDB, MySQL, Scylla DB, PostgreSQL, Hyperledger Fabric, smart contracts, chaincode
Methodologies & Design Patterns: Agile, Singleton, Adapter, Facade
DevOps & Tools: Git, Docker, Kubernetes, JIRA, AWS (S3, EC2, RDS, Lambda), Katalon
Software Testing: Test Driven Development, Automation Testing, Unit Testing, Junit, Jest, Mocha
Backend Technologies: Node.js, Express.js, Spring Boot

Soft Skills: Problem Solving, Adaptability, Teamwork, Research, Communication

CERTIFICATIONS

Certified Hyperledger Fabric Developer (CHFD) issued by Kerala Blockchain Academy (07/2022)

ACHIEVEMENTS AND RESEARCH PUBLICATIONS

Ranked **23rd** in the university in the Placement Maze competition by Coding Ninjas.
Ranked **15th** out of **68 teams** in a university level Hacker Rank coding challenge.
Darshana A Naik, Sai Ootej Reddy, "Traffic Rule Violation Detection System using Surveillance Videos in real-time" published in Annals of the Romanian Society for Cell Biology, May'21, vol. 25, page no. 13083 -13091.
Darshana A. Naik, Sai Ootej Reddy Bachapally, "Impact of data augmentation on identifying water bodies in satellite images" AIP Conference Proceedings 2576, 050005 (2022).