

SAI KUMAR TATA

Jersey City, NJ 07306 | saitata7@gmail.com | 201-708-4922 | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

WORK EXPERIENCE

TeamCal AI

Mountain View, CA

Software Engineer (AI – Powered Scheduling Software)

April 2023 – Current

- Modernized 7 features in TeamCal AI, including schedule stats, email responses using PHP and CodeIgniter framework for backed development in Agile methodology.
- Designed and implemented backend logic for 2 pages with interactive AI-driven user interfaces, enhancing user experience by 25%, using frameworks.
- Collaborated on the development of a continuous integration and deployment pipeline, incorporating AI model updates.
- Discovered and addressed 18 issues related to time scheduling and UI/UX, resulting in significant improvements.
- Managed a 5-member cross-functional team to ensure consistent User Interface design, used MySQL database and frontend and backend integration.
- Coordinated with QA teams to implement automated testing frameworks, resulting in a 40% reduction in bugs and faster deployment cycles.

Ionixx Technologies Private Limited

Chennai, India

Java programmer

January 2021 – September 2022

- Led the redesign of 30% of the RESTful APIs for the Drive Wealth trading platform, utilizing Spring Boot, Spring Web Flux, and AWS and performance within an Agile managed via JIRA and Confluence.
- Analyzed and optimized 35% of the database queries using JOOQ, enhancing data retrieval processes and integrating continuous integration and deployment (CI/CD) practices to improve deployment cycles.
- Engineered real-time data communications and API connections using gRPC, GraphQL, and Kafka, achieving a 60% improvement in data flow efficiency between microservices.
- Integrated caching solutions using Redis and followed deployment strategies on Amazon S3, ensuring high availability and robust application performance.
- Established FTP server connectivity within a microservices architecture using FileZilla tool, improving storage management and system resilience.
- Deployed robust authentication and authorization mechanisms using OAuth and JSON Web Tokens (JWT), security protocols and ensuring comprehensive role-based access control.
- Conducted JUnit testing to validate data integrity and enforce system reliability, maintaining a 100% validation rate across all application components.
- Collaborated closely with client and development teams to redesign and enhance 60% of trading calculations, leading to a notable 40% improvement in user retention and overall client satisfaction through quality-checked processes.

FXMKT Technologies

Chennai, India

Software Development

December 2020 – May 2021

- Developed backend functionality that allowed users to customize clothing based on their interests and preferences, utilizing Java to ensure flexibility and user engagement.
- Led the web development of 85% of the "Custom Cloth" e-commerce website, focusing on robust backend development using Java and Spring Boot to create a scalable and responsive online retail platform.
- Engineered backend logic for five key features, including a shopping cart, which enhanced the shopping experience by streamlining the checkout process and improving transaction efficiency.
- Employed advanced optimization techniques to improve the website's performance, reducing load times and enhancing user experience.
- utilized CI/CD pipelines to automate testing and deployment processes, which increased development speed and reduced human error, maintaining high-quality code deployment.

TECHNICAL SKILLS

Programming Languages: Java 8, Java 11, PHP 8.2, | **Scripting Languages:** JavaScript, React.js, Node.js, Python

Web Services: Rest API's | **Web Technologies:** HTML 5, CSS 3, Spring Boot, Spring WebFlux, Kafka, JOOQ, gRPC, GraphQL, AWS

Software / Tools: IntelliJ IDE, Eclipse, Jasper, FileZilla, Postman, Bitbucket

Project Management: JIRA, Confluence, Trello | **Database:** MySQL, PostgreSQL, Redis, Firebase

EDUCATION

Pace University, Seidenberg School of Computer Science and Information Systems Master of Science (MS) in Computer Science Concentration: Software Developer	New York, NY May 2024
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology Bachelor of Science (BS) in Computer Science Concentration: Software Engineering	Chennai, India May 2021

CERTIFICATION

AWS Certified Developer - Associate	August 2024 – August 2027
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ACADEMIC PROJECT

Full Stack Developer – Fake News Detection using Machine Learning GitHub	December 2023 – May 2024
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About the project: This team-based project involved developing a web application to identify and fake news articles using advanced machine learning techniques.

Role and Responsibilities:

- Innovated machine learning and deep learning algorithms achieving a 70% accuracy rate in detecting fake news from a dataset of true and false news articles.
- Integrated backend functionality using Python and Flask APIs, ensuring seamless interaction with the frontend, which resulted in a 30% reduction in response time and improved user experience.
- Facilitated to the frontend using React.js, Firebase for the database, and React Bootstrap, leading the development of five key features that enhanced the website’s functionality and user interface.
- Deployed the fully trained model and web application on Amazon Web Services, and the ability to handle up to 7,000 simultaneous user requests, demonstrating the application’s scalability and reliability.
- Conducted real-time testing and performance tuning, which improved algorithm efficiency by 25% and achieved a final model training accuracy of 100% on the training dataset, ensuring robust and reliable detection of fake news.

Mobile app Developer – Recipe Dictionary GitHub	September 2023 – November 2023
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About the project: The Recipe Dictionary app simplifies cooking by providing step-by-step recipes, ingredient lists, and cooking tips.

Role and Responsibilities:

- Developed 4 key features, including step-by-step recipes and ingredient tracking, using JavaScript, React Native, and Java, enhancing user engagement by 50%.
- Implemented and integrated backend logic using Firebase Database and APIs, ensuring seamless data synchronization and real-time updates, which improved app reliability by 30%.
- Designed and developed an admin management page for adding or removing recipes, JavaScript and React Native, which streamlined recipe management and reduced admin workload by 40%.
- Optimized the application's performance, leading to a 25% faster load time and smoother user experience, by refining backend processes and database queries.