

Sai Nanda Kumar Tirneddi

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Summary —

Self-motivated and results-driven IT professional with 1.5 years of full-stack development experience, excelling in Java, Spring Boot, React.js and Artificial Intelligence. Currently pursuing a Master's in Computer Science, specializing in deep learning architectures, natural language processing (NLP), and computer vision. Seeking to apply my technical expertise and innovative mindset to build high-performance software solutions. Committed to delivering impactful results, optimizing performance, and driving technological excellence in dynamic development environments, I am excited about contributing to your team's success while furthering my development.

Education

Masters in Computer Science and Engineering

08/2023 - 11/2025

California State University Long Beach, Long Beach ,CA

GPA-3.90/4.00

- **Course Work:** Advanced Analysis of Algorithms, Advanced topics in programming languages, Advanced Software engineering, Advanced Artificial Intelligence, Data Visualization, Object Oriented Application Design.

Bachelors in Computer Science and Engineering

08/2018 - 06/ 2022

KL University, Vijayawada, India

GPA-3.90/4.00

Skills

Languages	Python, Java, C.
Web Technologies	HTML5, CSS, JavaScript, JQuery, React.js, Redux Toolkit, Tailwind CSS.
Database	SQL, PL/SQL, MongoDB.
Backend	Spring Boot, Spring ,node JS, JUnit.
Build Tools	Webpack, Babel, npm, Yarn, Git, Maven, Postman.
APIs & Cloud	RESTful APIs, GraphQL, AWS.
Software	MS Excel, MS Word, MS Power Point, Tableau, Eclipse, VS code

Experience

DELOITTE USI - Software Development Engineer

06/2022 – 06/2023

- Assisted in developing and maintaining RESTful APIs using Java, Spring Boot, and Hibernate. Worked on debugging API issues, fixing minor bugs, and implementing small enhancements under the guidance of senior developers.
- Contributed to building and modifying 8+ UI components using React.js, HTML5, CSS3, and JavaScript (ES6+). Assisted in fixing 10+ UI/UX issues, ensuring a smooth user experience. Worked with MySQL/PostgreSQL, writing basic queries and assisting in optimizing database performance by reviewing slow queries with senior developers.
- Wrote 20+ unit and integration tests using JUnit and Mockito, increasing test coverage by 25%, improving software reliability.
- Gained experience with Spring Security & JWT authentication, assisting in implementing basic authentication and authorization mechanisms, reducing unauthorized access risks by 15%.
- Participated in Agile (Scrum) sprints, attending daily stand-up meetings, sprint planning, and code reviews to collaborate with cross-functional teams.

DELOITTE USI- Engineering Intern

01/2022 – 05/2022

- As an early team member, established the codebase and streamlined processes through technology, significantly reducing operational effort.
- Designed and built a React-Node.js application for internal tools, improving operational efficiency. Developed Spring Boot REST APIs and integrated them with the frontend, ensuring seamless data flow.
- Created unit and integration tests using JUnit, achieving 90%+ test coverage.
- Participated in Agile sprint planning and daily standups, collaborating closely with developers and business analysts. Competed in hackathons, developing machine learning POCs for internal business challenges and integrating them into existing applications.

Projects

Chat Application with WebSockets

Java, Spring Boot, React.js, WebSocket, MongoDB

- Developed a real-time chat application using Spring Boot WebSockets for seamless messaging.
- Integrated MongoDB authentication for secure user login and account management.
- Designed a React.js UI with real-time message updates and status indicators.

Image Recognition Model

- Engineered and implemented an image recognition model employing keras, autokeras, gridsearchcv, and numpy.
- Conducted a comparative analysis, demonstrating superior accuracy metrics (10%) of the custom model over AutoKeras, with efficient processing times (200%).

Online Job Portal

- Built a job portal for 5,000+ users, handling 1,500+ daily applications. Optimized backend queries (40% faster) and improved UI navigation by 30%. Secured authentication with JWT & Spring Security (60% fewer breaches). Deployed on AWS with Docker & Kubernetes (99.9% uptime). Automated CI/CD with Jenkins & Git, reducing deployment errors by 70%.