SAHITHI NADIMPALLI

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PROFESSIONAL SUMMARY

Detail-oriented Full Stack Software Engineer skilled in building scalable and maintainable web applications using **Java**, **Spring Boot**, and **Angular**. Strong experience in full software development lifecycle activities including requirements gathering, application design, development, testing, deployment, and maintenance. Proficient in object-oriented design (OOD), object-oriented analysis (OOA), and delivering robust, high-performance solutions. Experienced with front-end graphical UI development, back-end service development, and system integration. Passionate about clean code practices, automation, performance optimization, and continuous learning.

EDUCATION

- **Master's in Computer Sciences,** *Kent State University, Kent, OH.*   **GPA: 4.0/4.0** *(Expected May2025)*
- **Bachelor's in Information Technologt,** *MGIT, India.*   **GPA: 8.0/10** *(May 2023)*
- **Relevant Course Work -** Software Development with Java and Spring Boot, Full Stack Web Development with Angular and React, Object-Oriented Analysis and Design (OOA/OOD), Database Design and Optimization, RESTful API Development, Agile Methodologies and Scrum, SDLC and Software Testing Techniques, Performance Tuning and System Optimization, Secure Coding Practices

TECHNICAL SKILLS

• **Languages**	:	Java, JavaScript (ES6+), TypeScript, SQL, HTML5, CSS3
• **Backend Development**	:	Spring Boot, RESTful API Development, Hibernate ORM, JPA, Microservices Architecture
• **Frontend Development**	:	Angular 12+, React.js (basic familiarity), Responsive Web Design, Bootstrap
• **Database Systems**	:	MySQL, PostgreSQL, MongoDB
• **DevOps & Tools**	:	Git, GitHub, Maven, Postman, JIRA, Agile/Scrum Methodologies
• **Software Engineering Concepts**	:	Object-Oriented Analysis and Design (OOA, OOD), SDLC, Unit Testing (JUnit, Jasmine/Karma for Angular)
• **Performance and Quality**	:	Code Optimization, Usability Improvements, QA Testing, Automation Basics
• **Other Skills**	:	Requirement Analysis, Debugging, Documentation, Cross-Browser Testing

EXPERIENCE

- **Development Engineering Intern**   *Legacy Agencies (January 2025 – present)*

  ➢ Designed and developed scalable full-stack applications using **Spring Boot** on the backend and **Angular 14** for frontend user interfaces.
  ➢ Implemented RESTful APIs to handle dynamic data exchange between microservices and Angular single-page applications.
  ➢ Collaborated with cross-functional teams to gather software requirements and translate them into high-performance technical solutions.
  ➢ Followed Agile methodologies, participating actively in daily standups, sprint planning, reviews, and retrospectives.
  ➢ Integrated OAuth2 and JWT-based authentication flows for secure user management and session handling.
  ➢ Conducted code reviews, wrote unit and integration tests (JUnit for Java, Jasmine/Karma for Angular), ensuring delivery of reliable and maintainable code.
  ➢ Performed database design and optimization using MySQL, improving query response times by 20%.
  ➢ Used Git extensively for feature branching, code merges, pull requests, and version tracking across multiple concurrent projects.

- **Full-Stack Developer Intern**   *Smart Cookie Rewards Pvt.Ltd (Feb 2024 – January2025)*

  ➢ Developed full-stack e-commerce modules with **Spring Boot** APIs and **Angular** front-end dashboards for order management and customer analytics.
  ➢ Integrated payment processing, inventory management, and CRM systems via secure RESTful API integrations.
  ➢ Built responsive and accessible UI components following Bootstrap 5 and Angular Material standards to ensure seamless UX across devices.
  ➢ Enhanced application performance by optimizing API response times and lazy loading Angular modules.
  ➢ Led cross-browser testing and frontend performance tuning, achieving Google Lighthouse scores above 90% consistently.

- **Software Engineer**   *Accenture (February 2023 – January 2024)*

  ➢ Developed scalable microservices with **Spring Boot** for client-facing SaaS platforms supporting supply chain operations.
  ➢ Built and tested Angular components for real-time monitoring dashboards, focusing on usability and responsiveness.
  ➢ Participated in requirements analysis, risk identification, system modeling, and simulation phases of new project development.
  ➢ Conducted thorough unit testing, integration testing, and system validation before production releases.
  ➢ Assisted DevOps teams in automating builds and deployments using Maven and Jenkins CI/CD pipelines.

- **Graduate Trainee Intern**   *LTI Mind tree (May 2022 – January 2023)*

  ➢ Participated in full software development lifecycle projects, assisting with requirement gathering, system design, coding, testing, and deployment phases.
  ➢ Developed backend RESTful APIs using **Spring Boot**, handling user management, task workflows, and notification modules for internal HR platforms.
  ➢ Created responsive frontend components with **Angular 11** to support interactive dashboards, employee profile management, and approval workflows.
  ➢ Integrated frontend applications with backend services through secure API endpoints, applying proper error handling, authentication, and authorization strategies.
  ➢ Optimized complex SQL queries for MySQL databases, improving data retrieval performance and dashboard loading speeds.
  ➢ Conducted extensive debugging and troubleshooting to identify frontend and backend performance bottlenecks, reducing system errors by 30%.

- **Data Science Intern**   *Exposys Data Labs (August 2021 – April 2022)*

  ➢ Designed and developed backend services using **Python Flask** and lightweight admin portals with **Angular 10**, automating internal reporting workflows.
  ➢ Built RESTful APIs to fetch, process, and deliver real-time operational data metrics, improving report generation speeds by 40%.
  ➢ Integrated SQL database queries and API data pipelines into centralized dashboards that visualized KPIs like system uptime, delivery tracking, and task completion rates.
  ➢ Created dynamic admin panels allowing non-technical users to configure report filters, set thresholds for alerting, and download customized data snapshots.
  ➢ Conducted system analysis and risk identification to ensure the reliability and security of internal automation tools.
  ➢ Automated database backup processes and designed cron jobs for periodic data refresh in the reporting systems.

PROJECTS

- **Drone Detection and Classification using YOLOv5**

This project leverages the YOLOv5 framework to perform real-time drone detection and classification. A custom dataset was created, with annotated images used to train the model for improved accuracy. The system is capable of identifying different drone types and provides a confidence score for each detection. By utilizing advanced object detection techniques, the model ensures reliable classification in varying environmental conditions.

- **Startup Success Prediction Using Machine Learning**

This project involves the development of an interactive web-based prediction system that evaluates startup success based on financial and managerial variables. Users can input key business metrics, and the system utilizes a machine learning model to analyze historical trends and generate real-time predictions. The platform provides valuable insights to entrepreneurs and investors, assisting in data-driven decision-making.

- **Secure Password Manager with AES Encryption**

Designed with a focus on security and user convenience, this password management system enables safe storage, retrieval, and administration of credentials. The system employs AES encryption to protect sensitive information and prevent unauthorized access. Additionally, it includes a password strength evaluation feature to encourage the use of secure passwords, enhancing overall cybersecurity.

- **Real-Time Ray Tracing with Object Integration and Local Shading**

This project integrates a Rubik's cube geometric object into a ray tracing system, enhancing the rendering capabilities with local shading and geometric transformations. The object is loaded from an OBJ file format, allowing for dynamic scene updates. The system processes transformations such as translation, scaling, and rotation, ensuring proper alignment and visualization in the 3D environment. Custom shaders were applied to maintain accurate color and light reflection, ensuring realistic rendering. The project demonstrates efficient handling of complex geometric objects and local lighting techniques in a ray tracing framework.

- **Mentoroid: Personalized Mentorship and Learning Platform**

Mentoroid is an intuitive one-on-one mentorship platform designed to foster personalized learning experiences. Users can log in with secure credentials to access a wide array of courses tailored to their learning needs. Mentors have the ability to upload course materials, assign lessons, and track student progress through performance analytics. The platform promotes a seamless connection between mentors and students, enabling real-time feedback and personalized guidance. By utilizing a user-friendly interface, Mentoroid helps enhance the learning journey, providing a structured environment for both students and mentors.