SAIPRAKASH BOLLAM

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PROFESSIONAL SUMMARY

Software Engineer with over 2 years of industry experience and a recent Master's in Computer Science. Currently leveraging generative AI tools to accelerate backend development in a Java and Spring Boot environment. Proven expertise in full-stack development, cloud platforms (AWS), and applying prompt engineering to enhance software reliability and security. Eager to contribute to a challenging software engineering role.

PROFESSIONAL EXPERIENCE

State University of New York (SUNY)   Remote
AI Software Engineer Intern   May 2025 – Present

- Accelerated the development of a Java Spring Boot application by leveraging AI tools to generate boilerplate code and refine REST API endpoints, reducing initial feature setup time by 40%.
- Automated the user password recovery process by engineering a secure, token-based "Forgot Password" feature with AI-generated Spring Security configurations, eliminating all manual admin resets.
- Utilized prompt engineering to evaluate and compare multiple AI-generated technical solutions (e.g., JWT vs. UUID tokens), selecting the most secure and scalable approach for implementation.
- Streamlined project workflows by using AI to structure weekly progress reports and generate professional technical documentation, saving an estimated 3 hours per week.

Computer Science Dept., SUNY   Binghamton, NY
Student Software Engineer   Aug 2023 – May 2025

- Constructed and maintained internal academic tools using Java and Spring Boot, automating grading and evaluation tasks which accelerated processing by 60%.
- Architected a secure authentication and authorization system using Spring Security and OAuth 2.0 to safeguard over 1,000 student records and enforce role-based access controls.
- Enhanced frontend UI components with Thymeleaf and TailwindCSS to improve responsiveness and reduce page load times by 25%.

LTIMindtree   *Remote*
Software Engineer   Aug 2021 – Jul 2023

- Engineered and deployed 6+ full-stack components for a client-facing financial application using Spring Boot and Angular, contributing to a 30% improvement in application performance.
- Delivered 10+ RESTful APIs for customer data management, achieving 95% code coverage with JUnit and Mockito to ensure robust, error-free endpoints.
- Optimized complex SQL queries and Hibernate mappings in a PostgreSQL database, reducing average API response time by over 30%.
- Orchestrated the CI/CD pipeline using Jenkins for deployments to AWS (EC2, S3), reducing manual deployment efforts and cutting release cycle times by 25%.
- Resolved 10+ critical production bugs related to Hibernate and SQL deadlocks, increasing system stability and contributing to a 15% reduction in user-reported error tickets for the quarter.
- Collaborated within a 4-team Agile environment, using JIRA for sprint planning and GitHub for version control to deliver features on a bi-weekly cadence.

PROJECTS

Smart Contact Manager   GitHub Link — Live Demo Link

- Built a secure, multi-user contact management system using Spring Boot, Spring Security, OAuth 2.0, and MySQL.
- Established role-based access control to ensure users can only view and manage their own contacts.
- Deployed the application to AWS Elastic Beanstalk, with a responsive UI built with Thymeleaf and TailwindCSS.

Vehicle Insurance (Insure Beta)   GitHub Link

- Produced a full-stack insurance quoting and claims system featuring a Spring Boot backend and an Angular frontend.
- Designed RESTful APIs and integrated Hibernate/JPA for all database operations, reducing claim processing time by 30%.

SKILLS

Languages:	Java, Python, SQL, TypeScript, JavaScript, C++
Backend:	Spring Boot, Spring Security, Hibernate, Microservices, REST APIs, JUnit, Mockito
Frontend:	Angular, HTML5, CSS3, TailwindCSS, Thymeleaf
Databases:	MySQL, PostgreSQL, SQL Developer
DevOps & Cloud:	AWS (EC2, S3, Elastic Beanstalk), Jenkins, Docker, CI/CD, GitHub, JIRA
AI/ML:	Generative AI, Prompt Engineering

EDUCATION

State University of New York (SUNY)   Binghamton, NY
Master of Science (M.S.) in Computer Science   Graduated May 2025
GPA: 3.9/4.0
Relevant Coursework: Design and Analysis of Algorithms, Operating Systems, Database Systems, Computer Security

CERTIFICATION

Oracle Certified Professional, Java SE 11 Developer