

Shivkumar Kothale

607-235-8380 | skothale@binghamton.edu | [LinkedIn-ShivkumarKothale](#) | [GitHub-ShivkumarKothale](#)

EDUCATION

- **State University of New York** | MS in Computer Science | Gpa-3.7/4 **May 2025**
Course Work- Design Analysis and Algorithms, Design Patterns, Computer Organization and Architecture, Distributed Systems, Computer Security, Operating Systems, Artificial Intelligence, Machine Learning, Programming Languages
- **Pune University** | Bachelor of Engineering | Gpa -8.33/10 **May 2020**
Course Work- Computer Networks, Object Oriented Programming, System Programming, Embedded Systems, and Real-Time OS, Software Development Life Cycle

TECHNICAL SKILLS

- **Languages and Frameworks:** Java, C, C++, Python, React, Spring Boot, Microservices, Apache Kafka, REST, SOAP, gRPC,
- **Tools and Technologies:** Elastic Search, Jenkins, OpenShift, Maven, Ant, JUnit, Wire Mock, Sonar, Git, GitHub, Source Tree, NGINX, Jira, Confluence, Jenkins, Docker, Kubernetes, OpenSSL, TLS, Amazon Web Services, Redis, Swagger, Zookeeper
- **Database:** MySQL, Hibernate, MongoDB, Cassandra, Oracle, CouchBase
- **Other:** System Design, Data Structures and Algorithms, Linux, Unix, Multi-threading

PROFESSIONAL EXPERIENCE

Amdocs Development Center, Software Developer | Pune, India **Apr 2022-July 2023**

- Developed and deployed high-performance microservices for 20+ core functionalities at T-Mobile for over 5 million users
- Migrated an existing monolithic architecture project for billing and cost estimation into a microservices architecture that added easy functioning and reduced time
- Led collaboration with QA teams to achieve over 95% software quality and coverage, employing tools like JUnit for comprehensive testing and validation of the software functionality and reliability
- Collaborated seamlessly with cross-functional teams to achieve project milestones, fostering communication and teamwork skills crucial in a professional software development setting
- Designed High-Level Designs and code reviews for Billing, Discount, and validation functionalities of TMO
- Proven track record of delivering high-quality software solutions on time and within budget using agile methodology

Cognizant Technology Solutions, Software Developer | Pune, India **Nov 2020-Apr 2022**

- Designed and seamlessly integrated over 18+ RESTful APIs to enhance core functionalities.
- Designed and implemented a novel application for effortless data integration from Excel sheets into databases, reducing manual work of 30+ minutes to less than 10 seconds.
- Contributed to code deliverables and facilitated the successful deployment to the QA environment, ensuring adherence to project standards and requirements.
- Implemented email services configuration leveraging the SMTP protocol for email services of internal application
- Involved in detailed analysis and design to improve existing functionality for new club requirements
- Enhancement and development of existing Restful APIs and soap-based microservices to merge the functionality of two different applications.

Cognizant Technology Solutions, Software Engineer Intern | Pune, India **Dec 2019-May 2020**

- Assisted Senior Developers in coding the applets and writing the JUnit test cases
- Developed a fully functional E-Commerce web application within a tight 7-day deadline
- Acquired practical experience with frameworks including Spring, Spring MVC, and Spring Boot
- Gained hands-on proficiency in HTML, CSS, JavaScript, MySQL, Java, and Maven

PROJECTS

Group Chat using Client and Server

- Engineered a synchronized Java chat system, establishing a server-client setup with robust synchronization mechanisms ensuring seamless interactions.
- Introduced advanced synchronization methods and integrated Socket API for enhanced data consistency and stable connections.
- Collaborated on user-centric design to prioritize an intuitive interface and fluid user experience. Conducted comprehensive testing and documentation, ensuring a highly reliable and user-friendly chat platform.

Scan And Go

- **Rapid Development:** Independently designed and delivered a fully functional e-commerce platform in 7 days using Spring Boot, Spring MVC, JSP, Spring Data JPA, and MySQL.
- **Automated Billing System:** Engineered an automated billing mechanism within the cart, triggering instant bill generation upon product key addition, coupled with seamless wallet deductions for swift transactions.
- **Enhanced User Experience:** Integrated wallet technology to streamline transactions, reducing checkout friction and optimizing user convenience while ensuring robust data security measures.

Secure Client-Server Communication using OpenSSL

- Integrated OpenSSL into C-based client-server applications to implement TLS for secure communication.
- Enhanced server to support one-way and mutual authentication using certificate-based verification with CA-signed and self-signed certificates.
- Replaced traditional socket operations with SSL read/write functions for encrypted data transfer.
- Developed robust error handling for certificate validation, ensuring secure connections and proper shutdown on authentication failures.