

Shikha Verma

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SUMMARY

Software Engineering graduate student with 3 years of experience in full-stack development, object-oriented programming, database management, and API creation and integration.

EDUCATION

M.S. Software Engineering (Cyber Security Specialization)

May 2025

Arizona State University, Tempe, AZ

3.84 GPA

Relevant courses: Advanced Data Structures and Algorithm Analysis, Foundations of Software Engineering, Software Verification, Validation and Testing, Software Agility, Emerging Languages and Programming Paradigms.

B.Tech. Computer Science

May 2020

Indian Institute of Technology, Goa, India

3.5 GPA

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Kotlin, Python, C/C++, Bash

Front-End: HTML, CSS, Angular, Bootstrap, JavaFX, Swing, React

Frameworks, Databases, and Tools: Node.JS, CakePHP, PHPUnit, JUnit, MySQL, MongoDB, Redis, Git, GitHub, ASANA, JIRA, Redmine, Jenkins, Docker, Windows, MacOS, Linux/Unix

PROFESSIONAL EXPERIENCE

GMO Research, Tokyo, Japan: Software Engineer

10/2020 - 7/2023

Responsible for developing and maintaining database management systems for various clients' market research data, integrating client-side APIs, and creating custom RESTful APIs. The role included assessments, client communication, solutions, testing, and implementation.

- Engineered a notable enhancement to the feasibility system by seamlessly transitioning from the MVC framework to a more robust Client-Server architecture.
- Normalized the MySQL database structure, resulting in a 30% improvement in data retrieval efficiency for 1.2 million panelists across 2000 panels.
- Constructed custom Kotlin APIs to enhance communication efficiency, reducing response time by 25% for point grant information to clients.
- Leveraged project management software JIRA to track the progress of the project and Git for version control.
- Conducted comprehensive interviews to assess candidates for internship and full-time positions, subsequently providing targeted training to selected candidates.
- Effectively communicate with clients in Japanese and English, fostering strong relationships and ensuring seamless cross-cultural interactions.

Inspired Automation, Pune, India: Embedded Engineering Intern

5/2019 - 6/2019

- Designed and implemented a database system for a robot orchestra of 15+ robots.
- Accomplished a 30% reduction in synchronization latency, leading to a 25% increase in precision during robotic ensemble performances.

PROJECTS

Taiga-Based Scrum Metric Calculator, *Class Project*

Spring 2024

- Developed a dynamic web application leveraging Taiga API to compute and visualize an array of standard and tailored metrics using react and fast API.
- Optimized application performance by implementing multithreading techniques, enhancing efficiency and responsiveness.

Deep learning Vulnerability detection in Python source code, *Class Project*

Spring 2024

- Led the development of a deep learning-based vulnerability detection system for Python source code.
- Extracted pertinent data from GitHub open-source projects through keyword searches within commit messages.
- Employed classification algorithms to discern vulnerable segments from secure ones, enhancing cybersecurity measures.