

# SHRIKANT BIPINKUMAR

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## SUMMARY

Software engineer with hands-on experience in full-stack development, cloud deployment, and scalable microservices. Proficient in Java, React, AWS, and SQL with a Master's in Software Engineering from the University of Sydney. Passionate about building robust, secure systems and continuously learning modern technologies.

## KEY SKILLS

- **Programming Languages:** Java, Python, JavaScript, SQL, C, C++, C#, HTML, CSS
- **Frameworks & Libraries:** Spring Boot, React, Node.js
- **Cloud & DevOps:** AWS, Docker, CI/CD
- **Tools:** Git, JUnit, Mockito
- **Databases:** MySQL, PostgreSQL, DynamoDB
- **Software Practices:** Agile, Microservices, System Design
- **Other:** Image Processing, Cybersecurity (Encryption, Digital Signature), Unity (2D/3D Game Dev)

## PROFESSIONAL EXPERIENCE

**Cognizant Technology Solutions**  
**Programmer Analyst**

**India**  
**Sept 2022 - June 2023**

- Designed and deployed 6+ Spring Boot microservices incorporating MySQL, reducing API latency by 20% and supporting scalable backend operations.
- Built and optimized 15+ React components connected to RESTful APIs, improving UI responsiveness and performance for 10K+ users.
- Participated in Agile sprints, sprint planning, and code reviews; contributed unit tests using JUnit and Mockito to raise test coverage by 30%.
- Implemented CI/CD deployment to AWS, improving release frequency and reducing deployment time by 40%.

**Cognizant Technology Solutions**  
**Java Full Stack Engineer Intern**

**India**  
**Feb 2022 - Aug 2022**

- Supported development of 3 backend modules using Spring Boot and MySQL, improving internal tool performance by ~20%.
- Contributed 10+ React component tests, helping reduce frontend bugs during QA by 30%.
- Shadowed senior engineers on AWS deployments and CI/CD workflows, gaining hands-on experience with cloud operations.
- Participated in daily standups and retrospectives, contributing to 6 Agile sprint cycles.

## EDUCATION

**The University of Sydney, NSW**  
Master of Professional Engineering (Software)

**July 2023 - June 2025**

**Vellore Institute of Technology, Vellore, India**  
Bachelor of Technology - Computer Science & Engineering

**July 2018 - May 2022**

## PROJECTS

- **Capstone: Advanced Group Testing for Community Infection Control**
  - Simulated infection spread using graph models (Erdős–Rényi, Barabási–Albert, Watts–Strogatz).
  - Implemented 4 testing strategies (Naive, Dorfman, Two-Stage Adaptive, GCAGT) in Python.
  - Benchmarked 4 testing strategies across 3 graph models and 10K-node simulations, reducing test count by up to 70% in clustered populations.
- **Face Detection-Based Attendance System | Python, OpenCV, Flask**
  - Built a face recognition-based attendance system with 95%+ accuracy, streamlining attendance tracking for classrooms.
- **Fruit Recognition System | Python, TensorFlow, Image Processing**
  - Built and trained a CNN on 2200+ fruit images across 22 classes using TensorFlow, achieving 98% accuracy and <2% false positives.
- **Interactive Cybersecurity Chatbot | Java**
  - Built an educational chatbot using Java and JSON inputs, simulating 10+ phishing scenarios for cybersecurity awareness training
  - Blended backend logic in Java to trigger responses and simulate phishing awareness.

## OTHER EXPERIENCE

### Production Assistant

April 2024 - April 2025

#### *Dinosaur Designs, Sydney, Australia*

- Coordinated with the production team to streamline daily manufacturing workflows, contributing to a 15% reduction in order delays.
- Monitored production line operations, ensuring quality standards were consistently met across 100+ daily units.
- Troubleshooted production issues, minimizing downtime and improving batch output efficiency.
- Managed inventory restocking and performed quality checks, helping maintain a 95% on-time dispatch rate.

## LANGUAGES

- **English:** Full Professional Proficiency
- **Hindi:** Full Professional Proficiency
- **Malayalam:** Native or Bilingual Proficiency
- **Tamil:** Professional Working Proficiency