

# Sumathi Koram

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## PROFESSIONAL SUMMARY

Software Engineer skilled in full-stack development, DevOps automation (Docker, Kubernetes), and performance optimization, delivering scalable and robust applications in Agile environments.

## EDUCATION

**Masters in Software Engineering** **Graduating Dec 2025**  
Arizona State University, Tempe, AZ 4.0 GPA  
Coursework: Advanced Data Structures & Algorithms, Foundations of Software Engineering, Mobile Systems, Software Validation Verification and Testing, Software Project Process and Quality Management

**Bachelor of Technology, Information Technology** **Aug 2015 - May 2019**  
National Institute of Technology Durgapur, India 7.04/10 GPA  
Coursework: Data Structures, Operating Systems, Database Management Systems, Object Oriented Technology

## PROFESSIONAL EXPERIENCE

**ASU, Graduate Teaching Assistant** **May 2024 – Present**

- Instructing Mobile Computing and Wireless Fundamental courses to a class of 180 students under professors, Derek Jackson, and Betty Lauer and facilitated student projects and assignments for optimal learning outcomes

**Senior Software Engineer, Comviva Technologies** **Sep 2021 – Nov 2023**

- Managed full-cycle development of the DbillLite product valued over \$10M, implementing robust Java applications and ensuring 100% on-time delivery
- Automated build and deployment processes with Jenkins, GitLab, Docker, and Kubernetes, reducing lead times from 2 weeks to 1 week (50% improvement)
- Performed unit, integration, and performance testing using JUnit, Mockito, Selenium and JMeter, improving test coverage and application stability
- Collaborated in Agile-Scrum team to resolve critical bugs, enhance features, and improve performance by 15%

**Software Engineer, Mahindra Comviva** **Jul 2019 – Aug 2021**

- Created a messaging platform GUI with React, Spring, Hibernate, and Oracle DB supporting over 2,000 daily users for configuring subscriber data and facilitating SMS/USSD services
- Built secure REST APIs and HTTPS, SCAPv2 Diameter interfaces with Apache Kafka for asynchronous processing, reducing latency by 20%
- Led the DbillLite project as the subject matter expert (SME), optimizing TCP request handling a load of 2000 TPS, resulting in a significant increase in system efficiency

## ACADEMIC PROJECTS

**Educational Dashboard | React, Django, PostgreSQL, AWS (S3, EC2, RDS), Nginx, Unicorn** **Jan 2024 – Apr 2024**

- Designed and developed a full-scale educational dashboard using React and Django, deployed on AWS S3 and EC2
- Configured Nginx and Unicorn for load balancing and PostgreSQL on Amazon RDS for seamless data management

**Scrum simulator | Java, Gradle, Checkstyle, Spotbugs** **Aug 2024 – Dec 2024**

- Developed a Scrum Simulator in Java to enhance learning of Agile and Scrum practices through a detailed simulation, incorporating Gradle, Checkstyle, and Spotbugs to ensure high code quality and efficient build management

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, JavaScript, SQL, C, C++

**Web Frameworks & Libraries:** Spring Boot, Spring MVC, Hibernate, Maven, Flask, Django, React, HTML5, CSS3, XML, REST, SOAP, JSON, JWT

**Databases:** MySQL, SQL Server, PostgreSQL, Oracle, Redis

**DevOps Tools:** Docker, Kubernetes, Jenkins, Git, SVN, CI/CD, Nginx, Unicorn, Apache Kafka, Selenium, JUnit, JMeter, Linux

**Cloud & Infrastructure:** AWS (S3, EC2, RDS, Lambda), OAuth2.0, JIRA

## LEADERSHIP SKILLS

- Facilitated a CSR computer lab initiative at COMVIVA, empowering 100+ rural high school students with critical digital skills, achieving 90% competency improvement.