

SHAMBHAVI ARVIND SHUKLA

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WORK EXPERIENCE

Senior Software Engineer | University of Arizona | USA

Jun 2025 - Present

- Migrated and re-architected a multilingual backend from Node.js/PostgreSQL to Dockerized Spring Boot/SQLite, optimizing 30+ APIs and cutting operational costs by 20% for 10K+ users.
- Optimized media APIs and admin interfaces, boosting performance by 40% and reducing image/audio latency by 60%, while ensuring cross-platform reliability via automated Postman testing.

Lead Software Engineer | Project 990 | USA

Mar 2025 - Jun 2025

- Spearheaded an 8-member team to architect a multi-tenant AWS platform with OAuth and CI/CD, reducing deployment time by 50% and boosting nonprofit fundraising efficiency by 25% through analytics dashboards for 5K+ users.
- Architected and migrated Qualtrics workflows to Ocelab.org, a scalable AWS-hosted PWA with MongoDB, rule-based multi-forms, and cron-based reporting, supporting 3K+ users and saving \$20K annually.

Software Engineer | Pointel | USA

Dec 2024 - Mar 2025

- Engineered scalable Spring Boot microservices integrating Genesys Cloud APIs, streamlining call flows to boost agent productivity by 25% and cut handle time by 15% for enterprise contact centers.
- Delivered 400+ user stories with acceptance criteria in Azure DevOps, resulting in 95% sprint goal attainment, and streamlined client onboarding with tailored training materials, decreasing call transfer rate by 15%.

Software Consultant | Hoosier Community Network | USA

May 2024 - Nov 2024

- Developed a full-stack project management web app with Tableau integration, user authentication, and advanced search, boosting workforce alignment by 60% and accelerating resource provisioning by 35%
- Implemented automated cost optimization using AWS Budgets, SNS, and Lambda to monitor cost thresholds and orchestrate shutdown of non-critical resources, reducing monthly cloud expenditure by 28%.

Associate Research Instructor | Indiana University Bloomington | USA

Aug 2023 - Nov 2024

- Led 4 Agile full-stack projects, streamlining development with Git and Jira to increase sprint velocity by 15% and reduce code merge conflicts by 30%.
- Collaborated with faculty to conduct 30+ full-stack and DevOps sessions for 450+ students, providing personalized assistance with debugging, code review, and issue resolution, and increasing deployment success to 75%.

Software Engineer | Tech Mahindra | India

Aug 2021 - Jul 2022

- Engineered and orchestrated scalable 140+ ETL pipelines ingesting 100M+ daily records across Oracle, CRM, and SAS, reducing processing time by 30% and increasing data accuracy by 25% in distributed systems.
- Automated 98% of data ingestion via Linux scripts, led 92% of CRM ETL workflows in Informatica, and debugged pipelines, eliminating manual errors and ensuring fault-tolerant, reliable data flow in live banking systems.
- Optimized 50+ PL/SQL queries by analyzing 100+ tables and resolving 60+ ad hoc requests, enhancing pipeline reliability and reducing report generation time by 40% across CRM and complaint systems.
- Implemented customized reporting pipelines and 20+ executive dashboards with SAS teams, enhancing risk assessment accuracy by 20% and reducing high-risk exposures by 15% for 1,000+ enterprise clients at a \$765B financial institution.

Junior Software Engineer | CNC Web Technologies Pvt Ltd | India

Aug 2017 - Apr 2018, Nov 2020 - Aug 2021

- Revamped backend architecture in Node.js by building RESTful APIs and integrating MongoDB via Mongoose, reducing system errors by 20% and improving reliability by identifying issues pre-deployment with Postman.
- Built a Django web platform with a modular React.js frontend leveraging custom hooks for state management, enhancing maintainability, increasing event outreach by 60%, and facilitating workshops for 200+ students.

EDUCATION

Master of Science, Computer Science, Indiana University - Bloomington | GPA: 3.8/4.00

Aug 2022 - May 2024

Coursework: Algorithms, Advanced Database Concepts and Design, Data Mining and Visualization, Cloud Computing.

Bachelor of Engineering, Computer Engineering, University of Mumbai | GPA: 8.23/10.0

Jul 2016 - Oct 2020

Coursework: Object Oriented Programming, Big Data, Machine Learning, Operating Systems, Distributed Computing.

PROJECT

End-to-End Crypto Trading Platform

July 2025 - Present

- Developed a crypto trading platform with secure authentication, buy and sell execution, portfolio tracking, an AI chatbot delivering real-time market data, and payment gateways enabling seamless transfers and bank withdrawals.

TECHNICAL SKILLS

Programming Languages	Python, Java, JavaScript(ES6+), SQL, PL/SQL, Bash, C
Frontend	HTML5, CSS3, Bootstrap, ReactJS, Redux, Vite, NextJS
Backend	Django, Spring Boot, NodeJS, ExpressJS, Flask, REST API, Cross-stack migration
Databases	Oracle 19c, PostgreSQL, MySQL, MongoDB
Miscellaneous	Informatica PowerCenter, SAS Visual Analytics, Power BI, Docker, AWS, Git, JIRA, Postman