

SHAMBHAVI ARVIND SHUKLA

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WORK EXPERIENCE

Software Engineer | Project 990 | USA

Mar 2025 - Present

- 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%.
- Led 6 developers to build AWS-hosted platforms, including a scalable multi-form web app with RESTful APIs and asynchronous pipelines, managing 1K+ researchers' resources and collecting data from 2K+ attendees.
- Architected and engineered a service platform providing nonprofits with custom analytics dashboards for fundraising and research, and a showcase platform for NGO researchers, engaging 5K+ users.

Software Engineer | Pointel | USA

Dec 2024 - Mar 2025

- Collaborated on developing a proprietary Genesys Cloud tool to enhance Agent Utilization Rate by 20% and decrease Average Handle Time by 15%.
- 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 Engineer | Hoosier Community Network | USA

May 2024 - Nov 2024

- Built a full-stack web app for project management with Tableau integration, user authentication, and search/filtering, reducing user onboarding time by 25% and improving project discovery accuracy by 30%.

Associate Research Instructor | Indiana University Bloomington | USA

Aug 2023 - Nov 2024

- Led 4 Agile full-stack projects, streamlining the development process using Git and Jira, which resulted in a 15% increase in sprint velocity and enhanced team collaboration.
- Collaborated with faculty to conduct 50+ training sessions for 500+ students, focusing on full-stack development frameworks and DevOps tools while providing personalized assistance with debugging, code review, and issue resolution.

Software Engineer | Tech Mahindra | India

Aug 2021 - Jul 2022

- Implemented CRM system for State Bank of India, creating and managing 92% of workflows using Informatica PowerCenter and automating 98% of tasks in UAT/production using Linux shell scripts.
- Optimized PL/SQL queries for 50+ requests, reducing report generation time by 40%, and debugged 140+ ETL workflows, improving data accuracy by 95%.
- Led ETL pipeline to process 100 M+ daily records from diverse sources into data warehouse, CRM, and SAS databases, reducing data processing time by 30% and improving data integration accuracy by 25%.
- Developed 20+ financial dashboards with the SAS team, enhancing risk assessment accuracy by 20% for over 1,000 corporate clients and decreasing high-risk exposures by 15% for a \$765 billion institution.

Software Engineer | CNC Web Technologies Pvt Ltd | India

Aug 2017 - Apr 2018, Nov 2020 - Aug 2021

- Revamped backend architecture by implementing RESTful APIs and integrating MongoDB with Node.js using Mongoose ODM, reducing system errors by 20%.
- Enhanced system reliability by using Postman to identify 20% of pre-deployment issues and accelerated frontend development with React components and custom hooks, improving code maintainability.
- Built a Django website, increasing event outreach by 60%, and conducted workshops for 200+ female students, resulting in a 25% increase in job placements.

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 Analysis, Machine Learning, Operating Systems, Distributed Computing.

PROJECTS

CarbonScope | Lambda, S3, EC2, EventBridge

Jan 2024 - Apr 2024

- Configured AWS infrastructure for real-time carbon emissions tracking across 50+ US airports and automated OpenSky API data ingestion via Lambda and EventBridge, storing in S3.

Wellness Tracking System | PostgreSQL, HTML5, CSS3, Bootstrap, React, Django, Git, Docker, JIRA

Jan 2023 - Apr 2023

- Developed wellness app with personalized plans, integrating search functionality, Google OAuth, and a chat feature.
- Enhanced scalability with Docker, achieving a 35% reduction in configuration time and faster deployment.

TECHNICAL SKILLS

Programming Languages C, C++, Python, JavaScript, Java, Bash, SQL, PL/SQL

Frontend HTML5, CSS3, Bootstrap, ReactJS, Redux, Vite

Backend NodeJS, ExpressJS, Django, Flask, Spring Boot

Databases Oracle 19c, PostgreSQL, MySQL, MongoDB

Miscellaneous Informatica PowerCenter, SAS Visual Analytics, Power BI, Docker, AWS, Git, JIRA, Postman