Shubham Shah

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EDUCATION

Arizona State University   Tempe, Arizona, USA
Master of Science in Software Engineering (GPA: 3.7/4.0)   *Expected: May 2025*
- **Coursework**: Data Science, Advanced DSA, Software Testing, Data Mining, Software Management.

University of Mumbai   Mumbai, India
Bachelors of Engineering in Computer Engineering (CGPA: 9.43/10)   *August 2019 – May 2023*

EXPERIENCE

Software Developer Assistant   Tempe, Arizona, USA
Global Launch ASU   November 2023 - Present
- Designed and optimized 17+ web pages using HTML/CSS/JavaScript and Drupal within an agile environment.
- Implemented A/B testing to improve scalability and fault tolerance, resulting in 57% YoY reduction in page load times.
- Automated backend data handling processes with Python scripts and cloud solutions, reducing workload by 40%.
- Pioneered algorithmic critical thinking strategies like automation of tasks to optimize data queries and reduce response time to 20ms.

Software Engineer Intern   Austin, Texas, USA
Flow AI   June 2024 – August 2024
- Developed 13 RESTful APIs in Python/Django using object-oriented principles to improve modularity and scalability.
- Optimized API logic to increase data retrieval efficiency by 20% and reduced response time from 200ms to 170ms.
- Orchestrated scalable micro-services architecture from scratch handling over 5000 data points, ensuring reliability and performance.
- Modernized CI/CD pipelines using Docker and Jenkins to automate testing and deployment processes, reducing development cycles by 23% and latency by 15ms to ensure fault tolerance.

Software Engineer Trainee   Mumbai, India
National Informatics Center (NIC)   April 2022 – October 2022
- Re-engineered SIMNIC (J2EE-based government app) interfaces using Bootstrap improving user experience and accessibility.
- Enhanced system performance and reliability by 29% through distributed storage systems using MeghRaj cloud infrastructure.
- Enhanced accessibility and reduced data entry errors by 27% via Unicode-based multilingual support, improving usability for diverse language speakers in government applications.

RESEARCH & ML Tooling

Improving YOLOv8 Transferability via Model fine-tuning with Domain specific Manufacturing data | Prof. Shenghan Guo, ASU
- Led full-cycle research involving dataset labeling, model fine-tuning, and evaluation to improve surface roughness detection.
- Achieved 79% accuracy using ResNet and CNN-based techniques, enhancing YOLOv8 transferability with domain-specific manufacturing data.
- Leveraged OpenCV and deep learning to support automated structure inspection across diverse manufacturing environments.

PROJECTS

Sakhi (DevHacks & InnovationHacks Winner)   March 2025
- Engineered a full-stack GenAI pipeline (Gemini API + RAG) to power empathetic, context-aware responses—achieving 99% retrieval precision and a 92% empathy score in user evaluations.
- Built an interactive UI with ReactJS and Blender, reducing user friction by 40% based on testing feedback.
- Enabled real-time voice interactions by integrating Azure TTS & STT APIs, achieving sub-500ms response times.
- Secured 100% of user data with a Node.js backend, implementing AES-256 encryption & OAuth 2.0 authentication.

Linguify (Founder and Lead Developer)   June 2024
- Built a multilingual AI translation platform (Python, React, GCP) with support for 29 languages; led a 3-member team and full-stack MVP delivery.
- Integrated Hugging Face LLMs for real-time speech/text translation with 90% language detection and 63% conversion accuracy.
- Deployed distributed systems architecture using Kubernetes and Docker, ensuring fault tolerance and high availability.
- Enhanced accessibility and comprehension by 50%, boosting engagement by 17% through inclusive UX and GenAI features.

Philo Physics   December 2021 – May 2022
- Achieved 4.8 stars and secured Government Copyright (SW-18144/2024), showcasing technical innovation and societal impact.
- Co-developed an Android application using Flutter, Dart and Firebase, engaging more than 5000 engineering students.

SKILLS

Languages: Python, R, JavaScript, SQL, Java, C++, C#, TypeScript, Rust, Golang (Familiar)
Frameworks: Django, Flask, Node.js, React.js, Angular, REST APIs, Selenium WebDriver, JUnit, MERN Stack
Tools: Git, Jenkins, Docker, Kubernetes, PostgreSQL, MongoDB, Kafka, gRPC, Google Cloud APIs, Postman
Interpersonal: Great communicator, Detail-oriented, Flexible, Problem-solver, Well-organized, Passionate, Innovative team player

PROFESSIONAL CERTFICATIONS

Winner at DevHacks(1st Prize), InnovationHacks and Smart India Hackathon
Google Cloud Hero - Gemini & Vertex AI   October 2024
JPMorgan Chase & Co. – Software Engineering Job Simulation Certificate   May 2024