Deep Pradipbhai Shah

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EDUCATION

Master of Science in Computer Science — Dec '24

San Jose State University, GPA: 3.97/4.0

- **Courses:** Communication Systems, Graph Theory, Artificial Intelligence, Database Systems, Parallel Processing
- **Scholarship:** Computer Science Scholarship Recipient for outstanding academic achievement '23

Bachelor of Technology in Computer Science and Engineering — Jun '22

Indian Institute of Information Technology Vadodara, GPA: 8.27/10

SKILLS

Programming:	Python, PHP, Java, *C#*, C, C++, JavaScript, Swift, SQL
Cloud & Databases:	AWS, Google Cloud, MySQL, PostgreSQL, MongoDB, Firebase, Microservices, Redis
Web:	Node.js, jQuery, Pub/Sub, BASH, Flask, GitHub, .NET, HTML, CSS, React.js, REST APIs
Tools:	Microsoft Office Suite, Jira, Linux, Docker, CI/CD Jenkins, Postman, Agile Methodologies

WORK EXPERIENCE

Software Course Instructor – *CS Dept., San Jose State University, San Jose, CA* — Aug '23 - Aug '24

- Designed course contents as an instructor, guiding Undergraduate students through challenging technical material and fostering a positive learning environment
- Taught courses CS 122 **Advanced Programming with Python** and CS 151 **Object-Oriented Design using Java**, creating lecture slides, coding exercises, and project assignments
- **Tech Stack:** Python, Java, UML, Pandas, Flask, Data Modeling, OOP, GUI Programming

AR/VR Student Assistant – *eCampus, San Jose State University, San Jose, CA* — Jun '23 - Aug '24

- Spearheaded the **integration of AI and XR** technologies into eCampus applications, culminating in the development of a sophisticated learning platform tailored for enhanced educational experiences
- Developed web-based AR application to illustrate intricate **Machine Learning** principles to students
- **Tech Stack:** WebGL, C#, C++, ARCore, RealityKit, AR.js, Three.js, Node.js, Git, GitHub

Software Development Engineer – *SaaS Labs Pvt. Ltd., Noida, Uttar Pradesh, India* — Jan '22 - Jun '22

- Collaborated with JustCall product team as an *Intern* to develop Agent Assist, a feature that listens to live calls and delivers real-time **AI driven suggestions** to agents, leading to a 20% reduction in average call handling time
- Elevated call transcription efficiency by 30% and integrated **emotion recognition machine learning** model
- **Tech Stack:** Node.js, GCP, WebSockets, Python, React, Redis, MongoDB, Microservices, MVC Frameworks

Full Stack Developer – *AtoZ Softtech LLC, Remote* — May '21 - Jul '21

- Led technical advancement of the **web-app** UnQue as an *Intern*, enhancing its functionality and performance
- Devised a tailored **SEO strategy**, increasing website traffic by 25% and achieving over 1000 Google page indexes
- **Tech Stack:** Java, jQuery, Twilio, Google Maps API, AWS, RESTful Web Services, BitBucket, MySQL

PROJECTS

FinBot | *LLM, **AI**, LangChain, LangGraph, GenAI, Python, FastAPI, Flask, Dash, WebSockets* — Nov '24 - Dec '24

Implemented a financial analysis agent using a multi-agent system, reducing analysis time by 30% and enhancing accuracy in identifying profitable investment opportunities (link)

AR-ML Fusion: Visualizing Machine Learning Concepts | *AR.js, JavaScript, **ML**, Three.js* — Jul '23 - Nov '23

Designed a **cross-platform Web-based** AR Visualizer utilizing a Radial-kernel-trained Support Vector Machine (SVM) model to generate interactive 3D model to understand **machine learning** concepts (link)

Distributed Cloud Database Application | *Python, **AWS**, Amazon EC2, MongoDB Sharding* — Sep '22 - Dec '22

Strategized **cloud deployment** of **distributed database** for NoSQL Course by creating a three-shard replica set and built an app for viewing and modifying data leading to 15% decrease in data retrieval time (link)

Insurance Management System | *PHP, **SQL**, HTML5, CSS3* — Mar '20 - May '20

Developed a web application for an insurance company's **DBMS**, implementing privacy access control in the user interface to facilitate multi-user functionality, **secure authentication**, and session management (link)