

# Deep Pradipbhai Shah

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## EDUCATION

### Master of Science in Computer Science

Dec '24

San Jose State University (SJSU), 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

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

## WORK EXPERIENCE

### Software Course Instructor – Computer Science Department, SJSU, 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
- Teaching courses CS 122 **Advanced Programming with Python** and CS 151 **Object-Oriented Design using Java** at SJSU, creating lecture slides, coding exercises, and project assignments
- **Tech Stack:** Python, Java, UML, Pandas, Flask, Spring, OOPs, GUI Programming

### AR/VR Student Assistant – eCampus of 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
- Strategized an adaptive queuing system that efficiently handles **database operations** to boost customer engagement and business value
- Devised a tailored **SEO strategy**, increasing website traffic by 25% and achieving over 300 Google page indexes
- **Tech Stack:** PHP, jQuery, Twilio, Google Maps API, AWS, RESTful Web Services, BitBucket, MySQL

## PROJECTS

### AR-ML Fusion: Visualizing Machine Learning Concepts | AR.js, JavaScript, Three.js, ML 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 | AWS, Amazon EC2, MongoDB Sharding, Python 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, MySQL, 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](#))