Deep Pradipbhai Shah

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EDUCATION

Master of Science in Computer Science   Expected: May '24

San Jose State University (SJSU), GPA: 4.0/4.0

- **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, SQL
Cloud & Databases:	AWS, Google Cloud, MySQL, PostgreSQL, MongoDB, Firebase, Redis, Hadoop
Web:	Node.js, jQuery, Express.js, BASH, Flask, GitHub, HTML, CSS, React.js, REST API
Tools:	Adobe, Microsoft Office Suite, Excel, Word, Outlook, Jira, Asana, Spreadsheets

WORK EXPERIENCE

Course Instructor – *Computer Science Department, SJSU, San Jose, CA*   Aug '23 - Present

- Played a leadership role as an instructor, facilitating technical learning and fostering a positive environment
- Created comprehensive course materials for CS 122 Advanced Programming and CS 151 Object-Oriented Design at SJSU, including lecture slides, coding exercises, and project assignments using Java
- **Tech Stack:** Python, Java, UML, Canvas, Object-Oriented Programming (OOP), GUI Programming

Student Assistant – *eCampus of San Jose State University, San Jose, CA*   Jun '23 - Present

- Enhanced functionality and user experience of existing eCampus applications through the optimization of Augmented Reality and Virtual Reality technologies
- Created web-based AR application to illustrate intricate Machine Learning principles to students
- **Tech Stack:** ARFoundations, WebGL, Unreal, C#, C++, ARCore, ARKit, RealityKit, AR.js, Three.js, WebXR

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

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

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

- Led technical advancement of the product UnQue as an *Intern*, enhancing its functionality and performance
- 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, AFrame, Three.js, SVM*   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)

Online Voting System | *Python, Pandas, Tkinter, Computer Networking, TCP/IP*   Sep '20 - Nov '20

Created application for online election voting, in which connection is made with socket programming and used client-server protocol with multi-threading and synchronization for high efficiency (link)

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

Developed web application for an insurance company's DBMS with user login and permissions in user interface