Deep Pradipbhai Shah

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EDUCATION

Master of Science in Computer Science   Expected: Aug '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

Programming:	Python, PHP, Java, *C#*, C, C++, JavaScript, SQL
Cloud & Databases:	AWS, Google Cloud, MySQL, PostgreSQL, MongoDB, Firebase, Redis, Hadoop
Networking:	Named Data Networking (NDN), 5G Slicing, SDN, Virtualization, Distributed Systems
Tools:	Microsoft Office Suite, Jira, Linux, Docker, CI/CD Jenkins, Postman, Agile Methodologies

WORK EXPERIENCE

Course Instructor – *Computer Science Department, SJSU, San Jose, CA*   Aug '23 - Present
- 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, Object-Oriented Programming (OOP), GUI Programming

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

Research Project: Intelligent Caching in NDN | *Computer Networking, Machine Learning*   Jul '23 - Present
Trained a Machine Learning model for intelligently caching in the content store of Named Data Networking (NDN) node to increase the hit ratio and optimize network efficiency and developing a network simulator to test results

TCP Sliding Window | *Computer Networking, TCP Selective Repeat, IP*   Feb '23 - Apr '23
Coded application to demonstrate TCP Sliding Window with Selective Repeat, auto-reconnection on failure, and sequence number tracking (link)

Distributed Cloud Database Application | *AWS, Amazon EC2, MongoDB Sharding, Python*   Sep '22 - Dec '22
Strategized cloud deployment of distributed systems for NoSQL Database 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)