Pankil Shah

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EDUCATION

Saint Louis University (St. Louis, MO)   **Jan 2021 - Dec 2022 (Expected)**
Master of Science, Computer Science, GPA: 3.71/4
Coursework: Computer Vision, Machine Learning, Artificial Intelligence, DevOps, Computer Networking

Dharmsinh Desai University (Nadiad, India)   **Jul 2013 - May 2017**
Bachelor of Technology, Computer Engineering, GPA: 7.87/10
Coursework: Data Structures, Operating Systems, Design and Analysis of Algorithms, Object Oriented Programming

TECHNICAL SKILLS

Programming Languages: C#, Python, Java, JavaScript, TypeScript, HTML, CSS
Frameworks and Database tools: .NET Core, Angular 6+, Flask, Node.js, React.js, MySQL, MongoDB
Other: Docker, Git, AWS, REST API, Postman, NumPy, Pandas, scikit-learn

WORK EXPERIENCE

Application Development Intern - Enterprise Fleet Management (St. Louis, MO)   **May 2022 - Aug 2022**
- Designed and developed prototypes for financial applications using PeopleSoft Application Designer.
- Orchestrated job streams to automate, plan and control the billing cycle processes.

Graduate Research Assistant - Saint Louis University (St. Louis, MO)   **Feb 2021 - May 2022**
- Assisted Dr. Jie Hou in research project by developing software system to visualize complex protein data.
- Experimented with 20 secondary structure prediction tools and generated a pipeline to predict 3D structure.

Senior Software Engineer (R&D) - Infosys Limited (Pune, India)   **Jun 2017 - Nov 2020**
- Developed backend microservices and frontend UI to build Robotic Process Automation (RPA) tool from scratch.
- Devised strategy to migrate from MongoDB to MySQL database; redesigned complex schema; recreated 100+ Data Access Layer and Business Access Layer methods, ensuring smooth transition.
- Built Headless Automation utility to automate workflows, increasing speed of doing manual tasks by 70%.
- Increased server query response time by 20% by performing extensive code refactoring.
- Led a team of 4 developers to improve code coverage from 55% to 90% by writing unit tests.

PROJECTS

Stock Price Prediction (Machine Learning, Python) | View   **Oct 2021 - Dec 2021**
- Trained Machine Learning models using Linear Regression, SVM, KNN, Random Forest, LSTM.
- Performed hyperparameter tuning to identify LSTM as the winner, achieving RMSE of 11 on test dataset.

Deelingual (Flask, Python, HTML, CSS, MySQL) | View   **Feb 2021 - May 2021**
- Built scalable multilingual dictionary application to break down sentences into clusters with related sense.
- Streamlined process to load tagged corpus into database and refactored code to support untagged corpus.
- Clustered sentences by leveraging Word2Vec library and K-means algorithm.

Inventory Management System (Angular 8, .NET Framework, MongoDB Cloud) | View   **Aug 2019 - Dec 2019**
- Developed application for tracking inventory, orders, and deliveries along with dashboard to view analytics.
- Incorporated role-based authentication for managing access to functionalities depending on user role.

PUBLICATIONS

Deep graph learning to estimate protein model quality using structural constraints and multiple sequence alignments
(BCB'22: Proceedings of 13th ACM International Conference on Bioinformatics, Computational Biology and Health Informatics)

AWARDS

- Awarded "Rising Star Award" for outstanding performance as a fresher in Infosys.   **Aug 2018**
- "Top Performer" out of ~1000 trainees in Infosys Training (Batch of 2017)   **Nov 2017**