Vishal Patel

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EDUCATION

University of California, San Diego — **La Jolla, CA**
B.S. in Cognitive Science with specialization in Machine Learning and Neural Computation. **Major GPA: 3.9**
Minors - Data Science and Finance Expected Fall 2025

- **Honors:** Provost Honors, Good Standing
- **Relevant Coursework:** Data Analytics, Accounting, Supervised Machine Learning, Artificial Intelligence, Unsupervised Machine Learning, SQL, Reinforcement Learning, Deep Learning, AWS, Data Management, Systems for Scalable Analytics

WORK & LEADERSHIP EXPERIENCE

Casepoint Intern — **Tysons Corner, Virginia**
Internship September 2024 – Present

- Learned and Setup a Cybersecurity SIEM tool called Graylog to further perform various actions on log messages
- Developed and optimized data pipelines using GROK patterns to extract critical information from syslog messages
- Created and managed alert systems for monitoring failed login attempts and session activity to enhance system security
- Implemented Graylog pipelines to handle log processing scenarios including pattern matching and event correlation
- Configures rsyslog inputs for reliable log ingestion and data analytics, contributing to handling large data sets
- Troubleshot and resolved configuration issues including log indexing, message parsing errors, to ensure system stability

UCSD ITS Classroom Maintenance Assistant — **La Jolla, CA**
Part-time Job November 2023 – Present

- Ensured all lecture halls are ready and prepared for daily use by the professors
- Conduct regular maintenance Monday – Friday for approximately 40 classrooms and 21 lecture halls
- Exchange microphone transmitter batteries, perform surface cleaning, and resolve technical issues with lectern software
- Achieved a 33% reduction in trouble calls, ensuring a smooth daily teaching operation

Trago Tech — **Los Angeles, CA**
Intern July 2023 – September 2023

- Assigned to develop a small-scale machine learning model as a precursor to a larger predictive modeling project
- Gather and prepare data for model deployment, utilizing web scraping and feature engineering techniques
- Prepared a 50 observations dataset through ETL and applied a Logistic Regression model tailored for future applications
- Successfully developed and implemented a foundational predictive model

Auro Pharmaceuticals, Inc. — **La Habra, CA**
Volunteer July 2022 - September 2022

- Tasked with optimizing production, quality control and billing processes to enhance efficiency and accuracy
- Identified operational bottlenecks in production and billing processing aimed to improve quality assurance and procedures
- Implemented quality control through rigorous pressure testing and developed an Excel sheet for faster billing processes
- Increased production quantity by 20% per week, while also speeding billing process by 15%

Office of Student Disability (OSD) — **La Jolla, CA**
OSD Note Taker Sept. 2021 – Dec. 2021 | Sept. 2022 – Dec. 2022

- Provide note-taking assistance for students registered with OSD
- Generated comprehensive lecture notes for students with disabilities
- Attended lectures regularly and created roughly 60 detailed notes, while regularly sending notes in timely manner
- Supported students' accessibility and their academic success via the detailed notes

CERTIFICATIONS

- Machine Learning by Stanford University & DeepLearning.AI on Coursera earned on August 14, 2023
  - **Unsupervised Learning, Recommenders, Reinforcement Learning:** PCA, Clustering, Collaborative Filtering
  - **Advanced Learning Algorithms:** Decision Trees, Multiclass Classification, Artificial Neural Networks, SoftMax
  - **Supervised Machine Learning:** Regression, Classification, Gradient Descent, Logistic Regression
- Python (Basic) on Hacker Rank earned on October 9, 2023
  - Scalar types, Operators and Control Flow, Strings, Collections and Iteration, Modularity, Objects, Types & Classes

TECHNICAL SKILLS

Languages: Java, Python, HTML, SQL

Developer Tools: Git, VS Code, IntelliJ, Sublime Text, Jyupter Notebook, Tableau, AWS, Dask, Graylog, Baraccuda WAF

Libraries: pandas, NumPy, Matplotlib, Sci-kit learn, Tensor Flow, Flask, spacy, pyTorch

ACTIVITIES & INTERESTS

Awards: Eagle Scout Award

Activities: Project RISHI (UCSD) – Committee Member, DS3 (UCSD) – General Member

Hobbies and Interest: Gardening, Carpentry, Golf