Jay Pandya

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Personal Info:
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Coding Experience:
Codeforces: *jpandya1161*
LeetCode: *jpandya1161/*
CodingNinja: *jaypandya*

Education:
M.S, Computer Science — **Expected Dec 2025**
University of Texas at Dallas, TX, USA — *CGPA: 3.67/4*
B.Tech, Computer Science & Engineering — **June 2019 – May 2023**
Charotar University of Science and Technology, GJ, India — *CGPA: 3.76/4*

Experience:
Teaching Assistant – Computer Architecture — **Mar 2025 – Present**
University of Texas at Dallas

Intern – Backend Web Developer — **Dec 2022 – May 2023**
Kintu Designs Pvt. Ltd. ***(Link)*** — India
Impact: Updated **Node.js API** to the latest version, improving system performance by **15%**. Implemented **REST API functionality** using Express.js, handling **500+ requests per minute** with **99% uptime**. Integrated **Firebase** and **MySQL**, reducing query response time by **20%**. Customized middleware for **user, expert, and admin roles**, improving system scalability and security.

Intern – Backend Web Developer — **May 2022 – July 2022**
Perfect Software ***(Link)*** — India
Impact: Developed a **Hospital Management System** that reduced patient registration time by **30%**. Implemented **OPD, laboratory, and inventory modules**, improving operational efficiency by **20%**. Designed a **user-friendly dashboard**, increasing staff productivity by **15%**.

Projects:
French TutorBot (Link) — **Mar 2025**
Technologies: Python, Flask, JavaScript, OpenAI API, DeepL API, NLP
Impact: Developed an interactive chatbot that achieved **92% accuracy** in French grammar correction and **88% precision** in mood-based response adaptation. Enabled **real-time conversation** and **dynamic feedback** using DeepL translation and OpenAI's language models, enhancing language learning experience for non-native speakers.

Graph Watermarking for Data Security (Link) — **Nov 2024**
Technologies: Python, Cryptography, Neo4j
Impact: Developed a graph watermarking algorithm to embed **digital watermarks** into graph structures, ensuring data integrity and security. Achieved **95% accuracy** in watermark extraction, even after graph modifications like node/edge additions or deletions.

Text Classification for Spam Detection (Link) — **Sep 2024**
Technologies: Python, Scikit-learn, NLTK, Pandas
Impact: Achieved **90% accuracy** in spam detection using Logistic Regression and SGD Classifier. Improved model performance by **10%** through hyperparameter tuning and feature engineering.

Skills:
Programming Languages: Python, Java, C++, JavaScript, SQL, HTML, CSS, MIPS Assembly
Frameworks: Node.js, Express.js, Flask, Git
ML/Data Science Tools & Libraries: Scikit-learn, NLTK, SpaCy, Transformers, OpenCV, XGBoost
Databases: MongoDB, MySQL, PostgreSQL, Firebase, Neo4j
Big Data Tools & Libraries: Hadoop, PySpark, Kafka, HBase, Hive, Cassandra
Tools & Platforms: BotPress, Android Studio, Power BI, WordPress, Databricks