Neil Noronha

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Education

New York University, Tandon School of Engineering   **May 2026**
Master of Science in Computer Engineering   *GPA: 3.722/4*
- **Relevant Coursework:** Computer Architecture, Database Systems, Machine Learning

Manipal Institute of Technology   **July 2023**
Bachelor of Technology in Electronics and Communication Engineering, Minor in Data Science   *GPA: 8.52/10*
- **Relevant Coursework:** Data Structures & Algorithms, Object Oriented Programming

Languages and Technologies

Programming Languages: Python, C++, C, JavaScript, SQL, MATLAB, R, SAS
Frameworks & Libraries: React, Node.js, Flask, TensorFlow, Pandas, NumPy, Matplotlib, Apache Spark
Developer Tools: Git, Docker, VS Code, Linux, GitHub, Jenkins, Android Studio
Cloud & Databases: AWS, Tableau, Power BI, PostgreSQL, MongoDB, Firebase, Redis

Experiences

Jeeva Clinical Trials Inc.   **Manassas, VA**
Software Engineering Intern   *May 2025 – August 2025*
- Developed Agentic AI workflows for 5 different clinical trial personas (patients, investigators, sponsors, CROs, regulators), reducing process automation time by 45%
- Built intelligent chatbot using BERT-based transformer models and intent classification algorithms, achieving 92% user query resolution rate and reducing customer support workload by 60%

Deloitte USI   **Hyderabad, IN**
Data Engineer   *September 2023 – May 2024*
- Developed SQL scripts processing 500GB+ daily financial datasets for 54 F500 clients, enhancing anomaly detection algorithms by 22%
- Designed Tableau and Power BI dashboards enabling data-driven decisions that increased client revenue by 17% on average

Data Engineering Intern   *January 2023 – April 2023*
- Built scalable data pipelines using Python and Apache Spark, supporting 40% increases in data volume while maintaining sub-second response times
- Migrated legacy SAS scripts to PySpark, reducing execution time by 13% and improving data accuracy by 47%

General Electric   **Pune, IN**
Software Engineering Intern   *June 2022 – August 2022*
- Developed IoT-based RFID security system using C++, reducing Loss Time Incidents by 83 man hours through automated access control
- Optimized power consumption in test cells by 34% through data mining algorithms analyzing entry/exit patterns and intelligent scheduling

Projects

FridgeChef - AI Recipe Generator | *Java, Google ML Kit, Gemini AI, Android* | GitHub   **Sept 2025**
- Integrated Google Generative AI (Gemini) API with OpenNLP for context-aware recipe generation, implementing Singleton pattern and MVVM architecture with background threading for ML operations
- Achieved 9.6% APK size reduction (52MB to 47MB) through ProGuard optimization, designed edge AI architecture for future Qualcomm SNPE/QNN NPU acceleration targeting 3-5x inference speedup

LibSys | *PHP, MySQL, JavaScript, REST API* | GitHub | Live Demo   **May 2025**
- Architected full-stack web application with 70+ REST API endpoints using PHP and MySQL stored procedures, supporting 4 user roles with JWT-based authentication and role-based access control
- Implemented complex database schema with 15+ normalized tables handling books, rentals, events, and room bookings; built responsive UI with HTML5/CSS3/JavaScript featuring dark mode and mobile optimization
- Developed features including real-time room availability checking, multi-payment processing (Card/Cash/PayPal), automated invoice generation, and event registration system for seminars and exhibitions

DiningBot - AWS Serverless Chatbot | *Python, AWS Lambda, Lex, OpenSearch* | GitHub | Demo   **Oct 2025**
- Designed serverless architecture using AWS Lambda (Python), API Gateway, and Lex for natural language processing; integrated Yelp API scraper to populate OpenSearch cluster with 5000+ restaurant entries
- Built responsive chat UI with Bootstrap and jQuery, implementing real-time messaging through AWS SDK; deployed 3 Lambda functions (LF0, LF1, LF2) for intent routing, data retrieval, and response generation