

SUPARNA SRINIVASAN

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SUMMARY: Full Stack Developer with 2+ years in driving robust backend development including Machine Learning, Application Development, and Cloud solutions. Skilled in turning business needs into robust technical solutions, collaborating with cross-functional teams and agile methodologies.

TECHNICAL SKILLS

Programming: Python, Java/J2EE, JavaScript, HTML, CSS, Rest API

Frameworks: ReactJS, NodeJS, Springboot, Scikit-learn, Apache Kafka

Databases & Tools: SQL, NoSQL, PostgreSQL, SQL Server, MongoDB, AWS: EC2, ECS, S3

Technical Abilities: Automation, Unit/Performance Testing, Scripting, CI/CD, SDLC, Agile Methodologies, RESTful, SOAP, Data Analytics, Distributed Systems

EDUCATION

Masters of Science in Computer Science at Northeastern University

Sept 2021 – Dec 2023

BS in Computer Science (Hons) in Artificial Intelligence at Heriot-Watt University (GPA: 4.0)

Sept 2017 – June 2021

WORK EXPERIENCE

Orkay Consulting LLC

Santa Clara, California

AI Software Engineer

Feb 2024 – Present

- Led the design and implementation of machine learning models for predictive analytics in client services, enhancing decision-making accuracy.

Encore Software Services

Fremont, California

Machine Learning Intern

June 2023 – Sep 2023

- Spearheaded research and development initiatives in **OCR** solutions, conducting comprehensive evaluations of **AWS Textract** and **Google Vision API** to assess accuracy and cost-efficiency for data extraction and analysis
- Engineered and optimized precise **NodeJS** and **Python** programs for text extraction and data segmentation, resulting in a 40% increase in data extraction accuracy and a 25% improvement in system performance

Wantik Technologies

Dubai, UAE

Machine Learning Intern

Apr 2022 – Sep 2022

- Engineered and deployed AI-driven chatbot for a Real Estate Agency tailored to client specifications, enhancing customer service interactions across multiple platforms using **DialogFlow** and **Google Vertex AI**
- Pioneered the utilization of **NLP** techniques to interpret and automate responses, cutting query handling time by 35%

Oasis Investment Company, Al Shirawi Group

Dubai, UAE

Full Stack Software Developer

May 2020 – May 2021

- Led the mobilization of the company's internal website using Flutter, enabling cross-platform functionality on **Android** and **iOS**; crafted intuitive **UI/UX** workflows and wireframes with **Adobe XD**; drove a 65% increase in user engagement
- Played a pivotal role in backend integration of secure payment processing, advancing the app's ability to manage advances and claims, while ensuring compliance with financial regulations
- Collaborated and implemented rigorous backend security protocols which fortified financial data security and **reduced security incidents by 60%**
- Managed agile development from design to deployment, smoothly launching a financial app across 45 companies, boosting financially operational efficiency.

Oasis Investment Company, Al Shirawi Group

Dubai, UAE

Software Development Intern

Aug 2019 – Sep 2019

- Developed an intuitive website using Microsoft **ASP.NET MVC**, **C#**, and **JavaScript**, enhanced financial workflows achieving a 70% surge in supplier interaction and more efficient invoice tracking
- Orchestrated the deployment of invoice management system across **45 companies** within the UAE, significantly improving the accounts payable process and financial data accuracy

PROJECT EXPERIENCE

Diet Coach LLM (Python, LangChain)

Dec 2023 – Jan 2024

- Successfully launched a conversational AI diet coach, enhancing user engagement by 40% and increasing daily active users by 20%, with the system efficiently handling over 100 dietary inquiries per day

SpotRec (React, Python, Keras, Spotipy, LightGBM)

March 2023 – May 2023

- Engineered a sentiment-driven music recommendation engine with advanced **NLP** and **ML**, delivering personalized, mood-aligned playlists through a user-friendly React interface, significantly enhancing user experience
- Attained a **92.4% sentiment prediction accuracy** with a sophisticated **bidirectional LSTM** model, leveraging Spotipy for precise feature extraction and **LightGBM** for robust music classification

HealthLink (Java, Python, Flask, Android Studio, MongoDB, RasPi, NVIDIA Jetson Nano)

Jan 2023 – March 2023

- Architected an innovative **MIoT** android app that facilitated remote patient monitoring using wearable devices, improving healthcare efficiency by **40%** and fostering seamless collaboration amongst a cross-functional team
- Integrated with **NVIDIA Jetson Nano** and **Raspberry Pi** for sensor data (temperature, heart rate, blood oxygen), created user accounts, and enabled real-time health data visualization.