SUPARNA SRINIVASAN

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PROFILE SUMMARY: Full Stack Software Developer with over 2 years hands-on experience in Machine Learning, Application Development, and Cloud solutions. Proficient in translating business requirements into technical solutions and collaborating with cross-functional teams and agile methodologies.

TECHNICAL SKILLS:

Languages: Python, Java, C, C++, C#, JavaScript, PHP, HTML, CSS,
Frameworks: Scikit Learn, TensorFlow, PyTorch, CUDA, NLTK, Hugging Face, OpenCV, Flask, React, Django, Elastic Search/ELK, Tableau, PowerBI, AJAX, Hadoop, Spark, ASP.NET
Tools: MySQL, MongoDB, NodeJS, Firebase, AWS, Azure, Kubernetes, Docker, Git, Adobe Suite, Figma

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WORK EXPERIENCE

Encore Software Services   *Fremont, California*
Software Development Intern   **May 2023 – Sept 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.

Oasis Investment Company, Al Shirawi Group   *Dubai, UAE*
Full Stack Developer   **Apr 2020 – Sept 2021**
Project: Petty Cash Mobile Application: A cross-platform enterprise finance app to manage advances and claims.
- 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.
- Led the collaborative effort with a Senior Developer to implement robust security measures, integrating Mobile App Management (MAM) and user-based authentication resulting in a **60%** decrease in security incidents and safeguarding sensitive user information.
- Executed agile development phases from design to deployment, resulting in a successful launch across **45** companies.

Oasis Investment Company, Al Shirawi Group   *Dubai, UAE*
Full Stack Development Intern   **May 2019 – Sept 2019**
Project: Supplier Invoice Submission Portal System: An invoice management system enabling suppliers to submit invoices and manage purchase orders and contracts.
- Developed an intuitive website design using Microsoft **ASP.NET MVC**, **C#**, and **JavaScript**, resulting in a streamlined user experience and increased customer engagement by **70%**.
- Successfully deployed the system across **45 companies** across the UAE, optimizing the invoice management processes.

PROJECT EXPERIENCE

Diet Coach LLM (2023)   *Python, LangChain*
- Implemented and deployed a conversational AI interface that allows users to interact naturally with the diet coach, ask questions, log meals, and receive instant feedback on the dietary choice.

SpotRec (2023)   *React, Python, Keras, Spotipy, LightGBM*
- Built a sentiment-based music recommendation system using **NLP** and **ML** techniques and designed an intuitive **React** user interface enhancing user experience with mood-aligned song suggestions.
- Achieved **92.4%** accuracy in sentiment prediction using a **bidirectional LSTM model**, while utilizing Spotipy for feature extraction and **LightGBM** for music classification.

HealthLink (2022)   *Java, Python, Flask, Android Studio, MongoDB, RasPi, NVIDIA Jetson Nano*
- Architected an innovative **MIoT** android app that facilitated remote patient monitoring, improving healthcare efficiency by **40%** and fostering seamless collaboration amongst a cross-functional team of 5 developers.
- Integrated with **NVIDIA Jetson Nano** and **Raspberry Pi** for sensor data, created user accounts, and enabled real-time health data visualization.

ElectroSearch (2022)   *Python, React, Flask, Elasticsearch*
- Created a powerful search engine by integrating and optimizing multiple electronics datasets, driving a **40%** improvement in **query processing**, **data retrievability**, and overall user experience.
- Engineered advanced features including **fuzzy search**, **data sorting**, and optimized responsiveness, reducing **search time** by **50%**.

Dashboard (2021)   *HTML/CSS, Javascript, D3.js*
- Designed a client-side internet application using JavaScript and D3.js to visualize REF 2014 data for the Director of Research (DoR) user profile, enabling data-driven decision making and improving research performance.
- Built interactive dashboards using **D3.js** layouts (Sunburst, Pack, Map, Tree), following GUP design pattern and **DOM**.

EDUCATION

Masters of Science in Computer Science at Northeastern University   **Sept 2021 – Dec 2023**
Bachelors of Science in Computer Science (Hons) in Artificial Intelligence at Heriot-Watt University (GPA: 4.0)   **Sept 2017 – June 2021**