

# SUPARNA SRINIVASAN

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**PROFLE SUMMARY:** Innovative and creative Software Developer specializing in Machine Learning and crafting scalable, efficient solutions. Proven experience in delivering high-quality projects in diverse domains and optimizing performance. Adept at collaborating with cross-functional teams, driving project success, and demonstrating commitment to technical excellence.

## TECHNICAL SKILLS:

**Languages:** Python, Java, C, C#, JavaScript, PHP, HTML, CSS

**Frameworks:** Scikit Learn, TensorFlow, PyTorch, NLTK, OpenCV, ASP.NET, Flutter/Dart, Flask, Elastic Search/ELK

**Tools:** MySQL, MongoDB, NodeJS, Firebase, AWS, Adobe Dreamweaver, Photoshop, InDesign, Illustrator, XD, Figma, Git

## WORK EXPERIENCE

### Encore Software Services

*Fremont, California*

#### Summer Software Intern

**June 2023 – September 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.
- Engineered precise NodeJS and Python programs for text extraction and data segmentation, enhancing data extraction accuracy and optimizing system performance.

### Oasis Investment Company, Al Shirawi Group

*Dubai, UAE*

#### Application Developer

**May 2020 – May 2021**

**Project:** Petty Cash Mobile Application: A cross-platform enterprise finance app enabling approvers to manage advances and claims efficiently.

- Led the expansion of the company's internal website to mobile platforms using Flutter, ensuring seamless functionality on both Android and iOS.
- Crafted intuitive UI/UX workflows and wireframes with Adobe XD, enhancing user interactions and overall satisfaction.
- Collaborated with Senior Developer to integrate multiple security layers, including Mobile App Management (MAM) and User-based authentication, safeguarding sensitive user information.
- Executed comprehensive development phases from design to deployment, resulting in a successful launch across 45 companies.

#### Software Development Intern

**Aug 2019 – Sept 2019**

**Project:** Supplier Invoice Submission Portal System: A streamlined invoice management system enabling suppliers to efficiently submit invoices and manage purchase orders and contracts.

- Developed an intuitive website UI utilizing Microsoft ASP .NET MVC, C#, and JavaScript and seamlessly integrated data from Microsoft SQL Server using WebAPIs.
- Successfully deployed the system across 45 companies, optimizing their invoice management processes.

## PROJECT EXPERIENCE

### SpotRec (2023)

*Python, Keras, Spotipy, LightGBM*

- Built a sentiment-based music recommendation system using NLP and ML, 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, Jetson Nano*

- Developed a **MIoT** app for remote patient monitoring, automating real-time health data recording and analysis, enhancing healthcare efficiency.
- Integrated with NVIDIA Jetson Nano and Raspberry Pi for sensor data, implemented user accounts, and enabled real-time health data visualization.

### ElectroSearch (2022)

*Python, Flask, Elastic Search*

- Engineered a dynamic search engine, optimizing queries and visualization of extensive electronics datasets, enhancing data retrievability and user experience.
- Implemented advanced features like **fuzzy search**, **data sorting**, and ensured optimal responsiveness, enabling user-informed decisions based on comprehensive electronics data.

### BlackjackVision (2022)

*Python, OpenCV*

- Developed an interactive Blackjack game leveraging OpenCV, implementing real-time card detection and recognition to elevate user experience.
- Utilized contour detection and perspective transformation for accurate card extraction and recognition, and template matching for suit and rank identification.

## EDUCATION

**MS in Computer Science** at Northeastern University

**2021 – December 2023**

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

**2017 – 2021**