

SUPARNA SRINIVASAN

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TECHNICAL SKILLS:

Languages: Python, Java, C, C#, ASP.NET (Web Forms, MVC), Flutter/Dart, JavaScript, PHP, HTML/CSS, MySQL, SQLExpress, PDDL, MongoDB, SML, Prolog, Assembler, NodeJS, R, Swift, Elastic Search

Design Tools: Adobe Dreamweaver, Illustrator, Photoshop, InDesign, XD, Figma

WORK EXPERIENCE

Northeastern University, Silicon Valley

Jan 2022 – Present

Graduate Teaching Assistant

San Jose, California

- Responsible for assisting the professor with the course Foundations of Software Engineering

Instructional Assistant

- Responsible for providing technical IT support for running hybrid classes on campus

Oasis Investment Company, Al Shirawi Group

May 2020 – May 2021

Application Developer

Dubai, UAE

Project: Petty Cash Mobile Application: An enterprise Finance App that allows Approvers to Approve or Reject incoming Advances and Claims submitted by company staff

- Expanded the organisation's existing internal website onto a Mobile Platform; developed the app in cross-platform using Flutter (Android and iOS), and developed all phases of app from designing, through developing, testing and deployment
- Designed the UI/UX mobile workflows and wireframes using Adobe XD, streamlining the user experience
- Worked with Senior Project Developer on multiple security levels - Mobile App Management (MAM) Solution and User-based authentication
- Successfully deployed on both Android and iOS devices for all staff in 45 companies

Software Development Intern

Aug 2019 – Sept 2019

Project: Supplier Invoice Submission Portal System: An invoice management system that allows Suppliers to submit invoices and follow-up purchase orders and contracts.

- Designed website UI using Microsoft ASP .NET MVC, C#, Javascript
 - Integrated data from Microsoft SQL Server using WebAPIs
 - Currently successfully deployed in 20+ companies
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ACADEMIC PROJECTS (Complete list of projects available on LinkedIn)

News Search Engine (2022)

Python, Flask, Elastic Search

- Developed a Search Engine for News articles using TREC AP89 collection
- Used pseudo relevance feedback techniques and machine learning to suggest the user similar news articles

Automated Bug Triaging System (2021)

Python, Flask, Firebase

- Developed dissertation project to triage incoming software bugs to the appropriate developer based on bug category, frequency, and severity
- Trained model using Firefox, Eclipse and Thunderbird open bug repositories using LSTM

Twitter Sentiment Analysis (2021)

Python, Scikit-learn, NLTK

- Compiled and analysed tweets related to 'online classes during COVID' using Twitter Developer Account
- Extracted and Visualized user tweets and metadata via Twitter API using Tweepy and TextBlob
- Built a text analytics pipeline for text processing, feature representation, vectorization, classification, and evaluation
- Analysed tweet polarity and sentiments based on user location

Automated Food Review Classification (2021)

Python, Scikit-learn, NLTK

- Engineered a classification system using Amazon Fine Food Reviews based on 500,000 user views using NLP and ML
 - Implemented multiple feature extraction and vectorization methods using TF-IDF, Count Vectorizer, Word2Vec and n-grams, visualized using TSNE
 - Analysed positive and negative reviews using topic modelling (Latent Dirichlet Allocation), visualized using pyLDAvis
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EDUCATION

Northeastern University, Silicon Valley

2021 – 2023

Master of Science - Computer Science

Heriot-Watt University, Dubai

2017 – 2021

Bachelor of Science - Computer Science (Hons) in Artificial Intelligence

Degree Awarded: First Class / GPA: 4.0

CERTIFICATION

Python (Aptech Institute, 2017), Objective C (Aptech Institute, 2019), ASP.NET, C# (Aptech Institute, 2019), Android Programming (Aptech Institute, 2019), Adobe Dreamweaver (Aptech Institute, 2019), Graphic Design Diploma (Photoshop, Illustrator and InDesign, SAE Institute, 2019), Digital Marketing Diploma (SAE Institute, 2021)