

SUBBALAKSHMI MANDAPAKA

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EDUCATION

University of Texas Rio Grande Valley (UTRGV)

Masters of Science

Computer Science

GPA: 4.0 GRAD: DEC 2021

Jaypee University of Engineering and Technology, India

Bachelor of Technology

Computer Science & Engineering

GRAD: JUN 2015

TECHNICAL SKILLS

Programming Languages

Python, Java, JavaScript, TypeScript, HTML, CSS, SCSS, Swift, Dart, C, C#, C++, SQL

Concepts

Microservices architecture, RESTful APIs, SOAP, HTTP, Responsive web design, Agile Software Development, CI/CD, DevOps, Natural Language Processing, Computer Vision, Machine Learning, Blockchain, Data Visualization and Analytics, Big Data, Recommender Systems, Cloud, LDAP, Deep Learning

Technologies and Frameworks

Angular, React, Node.js, Express.js, Java Spring, Mongo DB, PostgreSQL, MySQL, JSON, iOS, Android, Python Django, Flask, Docker, Kubernetes, AWS Lambda, EC2, Postman, Kafka, NGINX, Redis, Cloud GPU, Elasticsearch, RabbitMQ, Material, Bootstrap, Pandas, Numpy, Scikit-Learn, TensorFlow, Keras, Statistical Analysis

Tools

Git Version Control, Jenkins, JIRA, Adobe Creative Suite, Figma, Jupyter Notebook, MATLAB, Excel, Hadoop, Linux, BitBucket

RELEVANT COURSES

AI, Big Data Analytics, Web Search Engine & Information Retrieval, Data Mining, Machine Learning, OS, DBMS, Data Structures & Algorithms, Advanced Machine Learning.

HONORS AND ACHIEVEMENTS

- Grace Hopper vGHC 2021 Scholar
- Winner, Tech Lead HSI Battle of the Brains 2020 National Competition
- Kennedy, IWB & GR and L Ranganathan Scholarship Recipient
- Winner Big Idea Competition UTRGV

WORK EXPERIENCE

CAPIOT Software Pvt. Ltd, Bengaluru, India — *Software Developer* | MAR 2017 – APR 2018

- Experience as a full stack web developer in a FinTech Startup. Liaised with back-end developers, front-end developers, quality assurance testers, and CTO as needed. Owned end-to-end solution development.
- Collaborated on an agile, multidisciplinary cross-functional team to translate business needs into technical specifications and high-quality web-based scalable production-ready solutions and mentoring new recruits.
- Spearheaded transition from LAMP to MEAN stack, reducing latency by 40%, and built a microservices-based distributed ERP system using MEAN stack for one of India's largest rural assisted e-commerce platforms.
- Developed a Deal Management product to manage Escrow deals for various financial institutions and banks using ES6, Angular, Java, Node.js, Mongo DB, RabbitMQ, Elasticsearch, and NLP for parsing various deal definition platforms. Exceeded expectations in meeting SLAs in 50% less time.
- Managed time-sensitive updates including content changes and backend upgrades while developing a real-time digital payment platform called Streaming Payments Micro Hub using MEAN Stack and Machine Learning.

Cognizant Technology Solutions, Bengaluru, India — *Programmer Analyst* | JAN 2015 –MAR 2017

- Developed a customized SharePoint application using jQuery, C#, and ASP .Net framework. Enhanced customer experience by customizing applications. Performed SharePoint end-to-end migration of data.
- Underwent four months training program to gain skills for efficiently working with C#, SQL, DBMS, ASP Dot Net with C#, Dot Net framework, SharePoint 2013 and 2010, Office 365, CSOM, SSOM, and RESTful Web Services.

RESEARCH PROJECTS

Deep Learning-based Quality Control Automation Application in Smart Factories -AUG 2021 -

- A real-time visual quality control automation application in a smart factory prototype using both one- and two-stage convolutional neural networks (CNN) such as 'YOLO4', 'R-CNN', and 'Faster-RCNN' for object detection and recognition. Collected large proprietary industry training data using computer vision. Implemented model's accuracy achieved 98.72%.

Web Search Engine for information retrieval and query recommendation using Python -JUN 2020

- Created a text and image-based search engine using tf-idf and vector space model with query reformulation and content recommendation. Employed natural language processing for text-processing. Optimized document ranking with Rocchio feedback and performed link analysis.

Recommender System using Collaborative Filtering: Prediction on Netflix Prize Data -DEC 2020

- Devised a Hybrid Context-Aware Recommender System using Collaborative Filtering based on Matrix Factorization, Singular Value Decomposition, and Principal Component Analysis with a User and Item-Based Nearest Neighbor approach and performed predictive analysis.

CERTIFICATIONS

- **Code Path iOS Mobile App Development** – *CodePath.org* | APR 2021
- **Advanced Java J2EE with Hibernate and Struts** – *Hewlett Packard Education Services* | JAN 2014

PUBLICATIONS

- **Text Mining to Understand the Influence of Social Media Applications on Smartphone Supply Chain** © 2018
Published by Elsevier B.V. | NOV 2018
- **Mandapaka, Subbalakshmi. (2020). Social and Political Impact of Web Search Techniques -An Overview.**
10.13140/RG.2.2.16606.46403.

VOLUNTEER WORK AND LEADERSHIP ACTIVITIES

Google Developer Student Club UTRGV – *Technical Lead* | Since JAN 2020

- Organized & mentored various workshops e.g. "Data Viz w/ Python" & "Intro to Machine Learning".

PyLadies RGV – *Organizer & Mentor* | Since JAN 2020

- Arranged & curated technical workshops such as "Django Web development with Python".

CAPIOT Innovation Lab –*Member* | MAR 2017 – MAR 2018

- Organized and in numerous tech innovation and brainstorming sessions.

STRENGTHS

Problem Solving

Quick Learner

Result-Oriented

Analytical Skills

Communication