

Avyukth Reddy Thigulla

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OBJECTIVE

A result-oriented individual with an MS in Computer Science, seeking a suitable Software Engineering position at a reputed organization where I can leverage my extensive knowledge in software design and development, strong programming skills, and Computer Science principles to contribute to the company's success while continuously learning and growing in my role as a Software Engineer.

EDUCATION

New Jersey Institute of Technology, Newark, NJ

Sep 2022 – Present (Expected Dec 2023)

Masters, Computer Science, **GPA: 3.875**

CMR College of Engineering & Technology, Hyderabad, India

Aug 2018 – Jun 2022

Bachelors, Computer Science, **GPA: 8.44**

EXPERIENCE

Jabil Inc., USA

Sep 2023 – Dec 2023

Software Engineer

- Implemented a feature called **Wizards** on **ORAN system** facilitating **faster communication** with **Radio Units** using **Python**.
- Engineered **RESTful API** handling to optimize wizard system functionality, ensuring efficient **GET** and **POST** requests.
- Leveraged **Python's** dynamic capabilities to flexibly generate **JSON** objects for wizards, streamlining backend processes.
- Introduced **support for additional data types**, enhancing system functionality.
- Spearheaded performance optimization, achieving a **10-12 times** improvement through **abstraction**, enhancing debugging efficiency.

OpenText Technologies, Bangalore, India

Feb 2022 – Aug 2022

Software Developer Intern

- Worked on developing **interactive and dynamic web forms** using **React.js** for clients (BootsUK, Bitron, AldiAhead, & Morrisons)
- Involved in the **design and development** of the form **components** using **JSX** and **CSS**
- Devised the **logic and functionality** of the form using **React hooks** and **state management**
- Synthesized the **integration of frontend of the form with backend** using **RESTful APIs**

Synergina Private Limited, Hyderabad, India

May 2021 – Aug 2021

Technical Intern

- A **predictive model** that estimated students' marks based on their study habits and test scores using **linear regression**
- A **classification model** that detected fake news articles based on their content and source using **NLP** and **logistic regression**
- A **data analysis** project that uncovered interesting facts and trends from a world-wide movie database using **pandas**, **matplotlib**, and **plotly**
- A **web-scraping** project that collected and analyzed statistics of sports players from static and dynamic webpages using **requests**, **BeautifulSoup**, and **selenium**

PROJECTS

- Online Furniture Store**: Created an **e-commerce furniture store** using **MySQL**, **React.js**, and **Node.js**, which offered a wide range of furniture products with detailed descriptions and images. A user-friendly interface with easy navigation and search functions and a convenient checkout process with multiple payment options.
 - <https://github.com/AvyukthReddy/Furniture-Store>
- Shop.io**: Built a web application that allows users to browse, buy, and sell products online. It is built using **Python**, **Flask**, **Jinja**, **Bootstrap** and **MySQL**. **Shop.io** features a user-friendly interface, secure authentication, product categories, shopping cart, checkout, payment integration, and order history. It also provides an admin dashboard for managing products, orders, and users.
 - <https://shop-io.herokuapp.com/>
 - <https://github.com/AvyukthReddy/Shop>
- Collab Cube**: Developed a **Django** based **social media app** that enabled students to find and interact with peers who share their interests. The app uses a matching algorithm that analyzes the students' profiles and preferences and suggests potential connections. The app also provides a collaboration platform where the students can chat, video call, and share files with each other to work on different modules and projects. Additionally, the app allows the students to create blogs and engage with their connections.
 - <https://github.com/AvyukthReddy/CollabCube>

SKILLS

Programming Skills: Python, Java, C/C++, JavaScript, TypeScript, OOPS Concepts

Technical Skills: React.js, Node.js, HTML, CSS, Tailwind CSS, Bootstrap, Flask

Database: MySQL, Oracle, Firebase, MongoDB, PostgreSQL, Neo4j

Applications/Tools: GitHub, Postman API, Visual Studio Code, Jira, Jupyter Notebook

OS: Windows, Linux (basic), Macintosh

Certifications: Python for Data Science, AI & Development (IBM)

Publications: "Brain Tumor Detection Using Supervised Convolutional Neural Networks,"

International Journal of Computer Science and Information Security (IJCSIS) April 2022, Vol. 20 No. 4 Publication.