

Karthik Vibuthi

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Work Experiences

Graduate Assistant

Aug 2024 -Present

University of Maryland Baltimore County UMBC, Baltimore

- Working as a Graduate Assistant in the Data Science Graduate Program assisting over 50 students within 2 classes in understanding Big Data and Data Management concepts creating a collaborative learning environment.
- Helping Professors in creating assignments, quizzes and adapting AI into class work.

Software Engineer

Nov 2020 – Dec 2022

CGI, Chennai, India

- As a robust software engineer worked in Quality Assurance project with focus in **Client delivery, DevOps pipelines, Static Code testing, Infrastructure Management** and was recognized for quickly growing into multiple areas with 25 client recognitions, 200 tickets with 5-star rating and an organization level award.
- Automated pipelines for Feature testing, tool migration, and data movement reducing manual effort by 40 % accelerating adoption of new features and requirements which directly increased new clients and scan capacity.
- Promoted from associate to software engineer in 1 year and 4 months by expanding beyond quality roles, including member grooming, peer reviews, and managing requirements to the clients. A Young Achiever Award was also awarded.

Technologies: CAST AIP Suite, Docker, Jenkins, Kubernetes, Azure Cloud, Grafana, Terraform.

Web developer Intern

May 2020 – Nov 2020

Propelsum, Hyderabad, India

- An emerging front-end developer working with a software consultancy firm to build their portfolio website utilizing Angular JS framework. Finished deployment of the website 2 weeks early to the release date.
- Quickly progressed from developer role to the build manager, taking responsibility for the repository and leading a team of four, providing continuous support, and incorporating three business transactions based on the evolving requirements.

Projects:

Pneumonia Classification:

- Developed a pneumonia classification model using chest X-ray images to assist in early diagnosis and treatment, utilizing a Dense Net architecture with 3 convolution layers followed by a dense layer to improve feature extraction.
- Achieved a classification accuracy of 92% utilizing data augmentation techniques to improve model robustness and generalization, deployed the model to facilitate seamless integration into healthcare systems.

Newspaper Reader for the visually impaired:

April 2019

- Using Image Processing and Optical Character Recognition Algorithms of computer vision created a portable written text translator tool to help visually impaired to read newspaper. Key features are OCR model with 85% accuracy, text-to-speech conversion and a portable design using Raspberry pi and Micro camera.

Education

Master of Professional Studies: (Data Science – CGPA 3.97)

Jan 2023 – Present

University of Maryland at Baltimore County.

Skills: Data Analysis, Data Management, Data Visualization, Data Warehousing Machine Learning, Power BI, Python.

Bachelor in Electronics and Communication Engineering (CGPA -3.72)

Aug 2016 – June 2020

Sreenidhi Institute of Science and Technology.

Skills: Operating systems, Java, Communication Engineering, Networking, Micro controllers, and Micro Processors, VLSI.

Skills:

Languages:

Python, Java, TypeScript, HTML, CSS, MySQL

Focuses and Algorithms:

Data Structures and Algorithms, Machine Learning, Troubleshooting, Log Analysis, Feature Testing, Automation.

Cloud & Data Tools:

Azure: Azure DevOps, Azure Database for PostgreSQL, Terraform

Automation and CI/CD Tools:

Jenkins, Azure Pipelines, PowerShell, Batch Scripting, Linux Shell Scripting, Terraform, Grafana.

Databases:

PostgreSQL, MySQL Server, Azure Database for PostgreSQL, HDFS

Certifications: IBM Data engineering, CCNA (Cisco Routing and Switching), React JS.

Soft Skills: Dedication, Problem-solving, Taking Initiatives, Communication, Peer-Review, Supervising and Training.

Hobbies:

3d Printing, AutoCAD, Building model airplanes and drones.

Badminton, Pod Casts (More or Less: Behind the stats).