

GANESH BALARAJU

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Schenkendorfstraße 13, Magdeburg, Germany, 39108

EXPERIENCE

WorkStudent

IT Process Optimization and AI Development

Dec 2024 – Present

Stenbeis University, Berlin

- Designing AI-driven automation solutions and optimizing algorithms using Python.
- Building and supporting web and app projects with Next.js, MongoDB, HubSpot, and WordPress.
- Analyzing business processes, conducting workshops, and collaborating with teams to deliver tailored solutions.

Student Assistant

Institute of Biometrics and Medical Informatics

Aug 2024 – Dec 2024

Medical Faculty, OVGU

- Setting up ETL Pipeline for Data Trust Network
- Development, Conceptualisation of Databases - MongoDB, Python
- Design and Development of a Web Portal for Information Retrieval, Building up Server with ReactJS, TypeScript

Research Assistant

Telemedicine, Digitalisation and Economics Department

Sept 2023 – Aug 2024

Medical Faculty, OVGU

- Designed a Full Application Low, High Prototypes for 3 Applications of one project using Figma, Adobe Suite
- Developing applications for Multiplatform devices

Programmer Analyst

Cognizant, India

Sept 2021 – Mar 2023

Bangalore, IND

- Developed and maintained iOS applications using Swift, SwiftUI, and UIKit
- Integrated RESTful APIs and handled networking tasks for data exchange between the app and server

PROJECTS

Medical ChatBot LLM - AI Engineering Project | Python, Flask, React, LLM, AWS

September 2024

- Developed an AI-driven web application using Flask for backend and React for frontend, facilitating seamless interaction between users and medical information.
- Integrated GitHub OAuth to fetch and visualize user repository data, enhancing collaboration insights.

Visualization of Fluidized Bed Dryer - DE Project | Unity3d, Blender, C(Sharp)

May 2024 – July 2024

- Designed the prototypes for the application in Unity using Figma
- Development of the prototypes and building the UI for the project

E-commerce Store - Software Engineering Project | Python, Flask, React

June 2023 – Sept 2023

- Developed a full-stack web application using with Framework Flask as backend with React as the frontend
- Implemented GitHub OAuth to get data from user's repositories

Frequent Pattern Mining - DBSE Project | Python, SQL, Git

Oct 2023 – Jan 2023

- Developed a Model to determine the threshold automatically and find out the uncovered patterns
- Collaborated with PhD Researcher to suggest features and get feedback about the method

EDUCATION

Otto Von Guericke University

Master of Science in Digital Engineering

Magdeburg, DE

Apr. 2023 – Present

GPA: **2.2**

Relevant Coursework: *Computer Science, Machine Learning, System Architecture, Software Development, Database Concepts, Generative AI, Data Visualization, Visual Analytics*

Visvesvaraya Technological University

Bachelors in Telecommunication Engineering

Bangalore, IND

Aug. 2017 – Aug 2021

GPA: **2.1**

Relevant Coursework: *Neural Networks, Computer Networking, Signal Processing, Object Oriented Programming*

TECHNICAL SKILLS

Languages: Swift, Python, SQL, JavaScript, HTML/CSS, R

Frameworks: React Native, Node.js, NextJS, Flask, WordPress Material-UI, FastAPI

Design Tools: Figma, Illustrator, Photoshop

Developer Tools: Xcode, Realm, Firebase, Git, Docker, Kubernetes, GCP, PyCharm, Unity

Visualization Tools: Tableau

Libraries: Alamofire, pandas, NumPy, Matplotlib, PyTorch

Microsoft Suites: Office, Excel, Sharepoint, Powerpoint

CERTIFICATIONS

Google Cloud Engineer Learning Path - 2023

Swift Developer Certification - 2022

Google Data Analytics Professional Certificate - 2022

LANGUAGE

German - A2-B1 Band

English - C1-C2 Band

Telugu - Native

VOLUNTEER EXPERIENCES

Student Lead of OVGU Academic Club, Organizing of events, collaborating with peers and faculty, and contributing to the promotion of intellectual curiosity and academic excellence.

PERSONAL

Hobbies - Running, Cooking, Programming



Signature

Consent Statement:

I hereby declare that the information provided in this resume is accurate and true to the best of my knowledge.