Subhash S

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Experiential learner with hands-on experience in domains like Web development, Android Development, Artificial Intelligence and Compiler Design.

Education

Computer Science and Engineering

Indian Institute of Technology, Palakkad

Bachelor of Technology (B. Tech)

07/2018 – Present   **CGPA: 8.69/10**

Core Courses

- Database Management
- Software Engineering
- Parallel Programming
- Deep Learning
- Compiler Design
- Operating Systems
- Paradigms of Programming
- Reinforcement Learning
- Analysis of Algorithms
- Computer Networks

Position of Responsibility

- Networking Team Lead for a collaborative platform.
- Frontend Lead and Full Stack Developer at Alumni Cell.
- NSO Coordinator for Table Tennis

Work Experience

Research Intern

TCS Innovation Labs

05/2021 – 07/2021   *Bengaluru*

- Performed a comparative study on code summarization using Deep Learning techniques.
- Implemented efficient input pipelines using TensorFlow.
- Laid the foundation for further research.
- Wrote scripts to efficiently fetch data from remote sources.
- Deep Learning, Compilers, TensorFlow.

Quality Assurance Automation Engineer

nVipani Technology Solutions

05/2020 – 07/2020   *Bengaluru*

nVipani is a startup that wants to make supply chain management ubiquitous, affordable, and easy to use.

- Initiated the migration to automated testing.
- Implemented e2e test cases for numerous modules.
- Setup auto-documentation for test reports.
- Web Development, Automation Testing, Protractor.js.

Application Engineer

TIMKEN India Ltd

12/2019 – 12/2019   *Bengaluru*

- Upgraded functionality of an internal web application.
- Improved internal communication by implementing various features in the application.
- Influenced the database design for additional features.
- Web Development, ASP.NET core, jQuery, SQL Server.

Technical Skills

Programming Languages
Python, C/C++, Java, TypeScript, Bash

Databases
MariaDB, MongoDB

Web Development
NestJS, ExpressJS, GraphQL, Angular, Nginx

Other Skills
Flutter, Docker, Git, OpenCV, TensorFlow

Projects

Project Allocation Portal
- A web portal to ease the project allocation process.
- Adopted by all programs at IIT Palakkad.

Meet.me – A collaborative platform
- Desktop application with features like whiteboard, screen-share, and chats.
- Led the networking team, designed the specification, and decided the architecture of the networking team.

Driver Attention Analyzer
- Continuously analyses the driver's facial expressions.
- Low-cost solution optimized for low-power devices.
- Commendable results obtained on Raspberry Pi.

Driver Assistance Application
- Alerts drivers about inconspicuous obstacles.
- Detects obstacles, stores their location, and broadcasts this information to other users.

Multi-model image classification
- Extracts labels for images from textual description.
- Improved accuracy through a combined representation of text and images.

Compiler for Tiger Language
- Compiles code to an Intermediate Representation (IR).
- Provides utility programs like indentation and syntax highlighting.

Achievements

Semi-finalist at Swadeshi Microprocessor Challenge
- Ranked top 100 out of 6,000 teams.
- Spearheaded by MeitY.

Finalist at HCL Hack IITK 2020
- Ranked top 100 out of 12,500 teams worldwide.
- Implemented robust and intelligent Cyber Defense solutions to practical problems.