AJAY H
22PW01

Gender	Male
Date of Birth	18th May 2005
Languages known	English, Tamil
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OBJECTIVE

To obtain a position as a student intern from May 2025 to December 2025.

ACADEMIC QUALIFICATION

Currently pursuing 3rd year of 5 year Integrated MSc Software Systems at the Department of Applied Mathematics and Computational Sciences at PSG College of Technology.

SKILL SET

Languages	Python, JavaScript, C/C++, SQL, Java
Databases	MySQL, PostgreSQL, MongoDB
Platform	Linux, Windows
Tools	Git, Postman, Docker, Obsidian

AREAS OF INTEREST

- Database design
- Full Stack Development
- Object Oriented Programming
- Operating Systems

ACADEMIC RECORD

M.Sc Software Systems PSG College of Technology, Coimbatore	2022-2027 **9.86 CGPA**
XII (Higher secondary, State Board) Kongu Vellalar Matric. Hr. Sec School, Coimbatore	2022 **99 %**
X (SSLC, State board) Kongu Vellalar Matric. Hr. Sec School, Coimbatore	2020 **99 %**

RESEARCH EXPERIENCE

Department of RAE & Ministry of Heavy Industries | Research and Development InternMay 2024 - June 2024 - Worked on the Design and Development of User Interface for **PSG AR2 Robot** as a part of the Ministry of **Heavy Industries** (MHI) funded research project on the Development of **Robotic Controller** for **Welding Applications.** Used **PyQt** for UI development and explored ROS. Accomplished **image classification** of surface defects using **Transfer** Learning. (https://github.com/hajay180505/verano-24)

NON-ACADEMIC PROJECTS

Proleap | Django, React, Heroku ‐ A web application that is used to automate career sessions with interactive activities to engage and build student's profiles. Used **Django** and **Django Rest Framework** for the backend design and **JWT** for authentication and authorisation. Thorough API testing was done using Postman. Email automation is another notable feature. (https://proleap.vercel.app/)

Darpanet | NestJS, PostgreSQL, Redis, React, Docker ‐ Darpanet is a **PaaS** (Platform as a Service) for event management systems. Contributed by helping with the **database** design, **testing** the **API,** including **Unit testing, Data Flow testing, Stress testing** using Postman, and **seeding** the **database** for testing.

ACADEMIC PROJECTS

LocateMe | Python, RPI, KNN ‐ A raspberry pi based location predictor that predicts the location of the user in a floor. Uses the trained data of the wifi signal strengths from the routers in the building and **KNN** for predicting the location with the RSSI values of fixed routers in the building. (https://github.com/hajay180505/LocateMe)

Need For Feast | Django, CSS, SQLite ‐ A food delivery web application where customers order food from various restaurants that are within their vicinity. **Role based interfaces** are provided for Customer, Shop owners and Deliverer. Used **Django** for backend, django templates with **CSS** for frontend and **sqlite3** for the database. (https://github.com/hajay180505/need-for-feast)

MIPS 32 Emulator | C++, OOPMay 2024 - June 2024 - A parser for MIPS 32 instruction set. Used modern **C++** features with **OOP** principles for implementing the parser. (https://github.com/hajay180505/verano-24)

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Member of the creativity team of PSG Radio Hub.
- Member of Fine Arts Club, PSGCT.
- Best Outgoing Student in High School.
- Winner of Ideation '23 , a contest conducted by Coding Club, PSGCT.
- Making papercraft works, origami models and poetry in spare time.

DECLARATION

I, AJAY H, do hereby confirm that the information given above is true to the best of my knowledge.

Place : null
Date : null   (AJAY H)