

**AJAY H**  
**22PW01**

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**OBJECTIVE**

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

**ACADEMIC QUALIFICATION**

Currently pursuing 3<sup>rd</sup> 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
- Object Oriented Programming
- Full Stack Development
- Operating Systems

**ACADEMIC RECORD**

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

**RESEARCH EXPERIENCE**

**Department of RAE & Ministry of Heavy Industries** | Research and Development Intern : [May 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++, OOP : [May 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 : Coimbatore

Date : 18/05/2005

(AJAY H)