# Yash Patil

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## Skills

**Languages:** Golang, Python, JavaScript, TypeScript, C++
**Technologies:** Next.js, Express.js, MongoDB, Docker, SQL, NodeJS, Tailwind CSS, Amazon Web Services (AWS), Git, PyTorch

## Projects

**Nimbus –** Self hosted file server **|** Golang, NextJS
**Link: https://github.com/yashpatil74/Nimbus**
- Developed a self-hosted file server with 81 stars on GitHub, enabling efficient local storage and file management for personal use, small teams, and developers.
- Enhanced user accessibility and data security by integrating user authentication, and file encryption.
- Streamlined deployment and portability through Dockerized container setups, allowing effortless installation on various hardware platforms.

**Wildfire Detection |** Python, Computer Vision
**Link: https://github.com/yashpatil74/final-year**
- Focused on research on wildfire detection systems, benchmarking lightweight CNN models for edge devices like Raspberry Pi 5
- Achieved 96% classification accuracy for wildfire detection by benchmarking lightweight CNN models optimized specifically for resource-constrained hardware like the Raspberry Pi 5.
- Improved system reliability by selecting and fine-tuning ConvNeXt-Tiny, the top-performing model based on precision, recall, and F1-score metrics.

**Hexacopter |** Hardware, Python
**Link: Photos/Videos**
- Built a hexacopter using Raspberry Pi 5 and Pixhawk 2.4.8 flight controller in collaboration with a hackathon team.
- Designed and tested flight control software, enhancing navigation accuracy and data processing efficiency.
- Led the assembly and testing phases, contributing significantly to the development of future autonomous capabilities.

## Extracurriculars

**Core Technical Member, GDG MIT WPU**                          **November 2024 – Present**
- Collaborating on Google-assigned projects, implementing technical solutions as part of the GDG team.
- Developing projects for the university, enhancing student engagement and technological advancements on campus

## Education

**MIT World Peace University, Pune, India**                                     **CGPA – 8.5**
Integrated Bachelor of Technology in Computer Science (Diploma + Degree)
(Specializing in AI and Data Science)                                          **2022 – 2028**

**Sunshine Worldwide School, Goa, India**
10th grade