Dhruva Shaw

A discord.py bot developer and a budding Robotics and Automation Engineer from LPU

Skilled Python developer with a focus on Discord.py bot development, full-stack web applications, and automation. Experienced in leveraging Python's libraries to build robust and efficient systems. Currently exploring Robotics Engineering, merging hardware and software expertise.

Actively involved in robotics education through India STEM Foundation and WRO India, leading STEM teacher training and competition management. Committed to open-source principles, standards development, and sharing knowledge through GitHub.

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Education

Lovely Professional University
Robotics and Automation
Bachelor of Technology
Aug 2021 - Sept 2025

Internship

Robotics Enginer - Intern
IndiaSTEMFoundation
Gurugram
June, 24 - Present

Robotics Engineer - Intern
World Robot Olympiad
India
June, 24 - Present

Certifications

Artificial Intelligence for Sustainable B5G/6G Networks
IEEE Communications Society

Drone Hands-on-Training
Chitkara University, Chandigarh in coordination with Indian Institue of Technology Bombay

Oracle Database 11g: Advanced PL/SQL
Central Tool Room & Training Centre, GOI

Autonomous and Mobile Robotics
Robosapiens Technologies Pvt. Ltd.

Industrial Automation (PLC Programming)
Central Tool Room & Training Centre, GOI

Participating Standards Working Group

IEEE SA - P3120
Participating member

IEEE SA - P62659
Voting Member

Volunteering

National Cadet Corps
Cadet
01 Sept 21 - 03 March 2024

IEEE Student Branch Lovely Professional University
Secretary
Mar 2023 - Dec 2025

Honors & Awards

2024 IEEE SPS Scholarship recipient
IEEE Signal Processing Society
Nov 2024

2nd best poster at EE Research Day at IIT Ropar
Electrical Department, IIT Ropar
16 March, 24

The poster titled was "Mind Controlled Bionic Arm with Sense of Touch"

2nd place in Circuit Design at EE Research Day at IIT Ropar
Electrical Department, IIT Ropar
16 March, 24

Presentation at Conferences

Indian Engineering Congress
Novotel Kolkata
20th Dec, 24

Paper presentation titled "Mind Controlled Bionic Arm with Sense of Touch"

Poster Presentation at 5th International Conference on Intelligent Circuits and Systems (ICICS-2023)
Lovely Professional University
12 Oct,23 - 13 Oct, 2023

The poster is titled "Mind Controlled Bionic Arm with Sense of Touch"

SysCon24
Oral paper presentation under the topic "Robotics Swarm Configuration with Independant Selection of Master and Slave"
16th April, 24

Hardware Projects

Mind Controlled Bionic Arm with Sense of Touch

This paper/project proposes a new design for a low-cost bionic hand with a touch sensor in the gripper. This feature aims to improve user safety and dexterity. The hand is crucial for daily life, and this design offers a more accessible alternative to hand transplantation.

Osteoporosis ML Model

An AI model is being developed to detect Osteoporosis early and KL grade knee OA, using an Indian population-specific database

Software Projects

Shaw Durga Puja

Durga Puja rituals, documented since 2001, are now 24/7 accessible via a Heroku-hosted website with live streaming and photo archives.

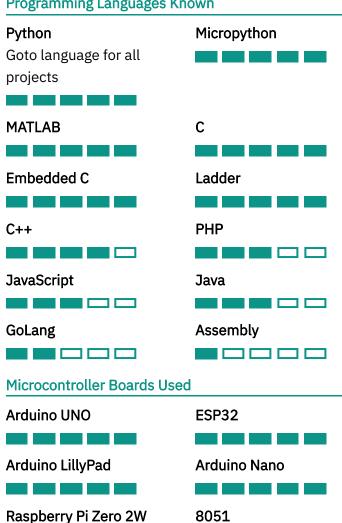🔗 https://shawdurgapuja.herokuapp.com

Minato Namikaze

Minato Namikaze, the versatile Discord bot, handles everything from admin tasks to fun and games.

🔗 https://github.com/Creatrix-Net/yondaime-hokage

Programming Languages Known

Language	Proficiency
Python — Goto language for all projects	▰▰▰▰▰
Micropython	▰▰▰▰▰
MATLAB	▰▰▰▰▰
C	▰▰▰▰▰
Embedded C	▰▰▰▰▰
Ladder	▰▰▰▰▰
C++	▰▰▰▱
PHP	▰▰▰▱▱
JavaScript	▰▰▰▱▱
Java	▰▰▰▱▱
GoLang	▰▰▱▱▱
Assembly	▰▱▱▱▱

Microcontroller Boards Used

Board	Proficiency
Arduino UNO	▰▰▰▰▰
ESP32	▰▰▰▰▰
Arduino LillyPad	▰▰▰▰▰
Arduino Nano	▰▰▰▰▰
Raspberry Pi Zero 2W	▰▰▰▰▱
8051	▰▰▰▰▱
LPC1768	▰▰▰▱▱
STM32F103C8 T6	▰▰▰▱▱
Jetson Nano	▰▰▱▱▱
AVR ATMEGA8	▰▱▱▱▱