

Pavnes Chaturvedi

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GITHUB | LINKEDIN

EDUCATION

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, KOTA
B. TECH. ELECTRONICS AND COMMUNICATION ENGINEERING

August 2019 - June 2023
MNIT, Jaipur CGPA: 7.58

EXPERIENCE

FOSSASIA | SOFTWARE DEVELOPMENT ENGINEERING INTERN

Singapore (Remote) | Sep 2021 - April 2022

- Working on the open-event project (FOSSASIA) which allows hosting events online
- Upgraded old legacy stripe API to new API to support more payment gateways like Klarna, Sepa, Google Pay and more.
- Made Price and Tax Calculation/Orders API efficient and secure.
- Fixed major bugs in Groups feature and made it production ready.
- Streamlined CI/CD (Github Actions) and helped managing autodeployment (Docker, Hetzner Cloud).
- Stack used - EmberJS, Ember Data, Javascript, Typescript (Frontend) and Python, Flask, Celery, Redis (Backend)

SKILLS

PROGRAMMING LANGUAGES

C, C++, Javascript, Typescript, Python, Matlab, Java

LIBRARIES/Frameworks

ReactJS, NextJS, EmberJS, Flask, Django, ExpressJS, NodeJS, OpenCV, Tensorflow, ROS

TOOLS / PLATFORMS

Linux, git, Azure, Hetzner Cloud, Jest, ESLint, Husky, arduino, sensors

DATABASES

PostgreSQL, MongoDB, Azure CosmosDB

PROJECTS / OPEN-SOURCE

ANTI-JAMMING ANTI-SPOOFING GPS SIGNALS (ONGOING) | GITHUB MATLAB, Python, Subspace Projection

- Working under Dr. Ankush Vashistha and Dr. Vineeta Tiwari to develop deep learning based algorithms for combined Jamming-Spoofing attack scenarios on GPS array.

PLACEMENT PORTAL | LINK

Next.js, TypeScript, Tailwind CSS, MEAN Stack, Azure Multer

- A web app to smoothen the placement process with minimal manual intervention. Key Features: Student and Coordinator Management; Company Registration and Recruitment Management. Automated Placements Statistics Generation. Gets 700K hits per month.

BBB-DOWNLOAD | GITHUB | DEPLOYMENT

Python, Flask

- The goal of this project is to enable the export of video and presentations from BigBlueButton instances.

ZINE CHAT | APP STORE

NodeJS, SocketIO, MongoDB, React, React-Markdown, Flutter

- It was being used as a communication channel for resolving doubts during robotics workshops for juniors.

ROAD SAFETY TEACHING ASSISTANT (NLP) | GITHUB

Gensim, word2vec, snowboy, pytsx3, scipy

- Developed a system for Sahayta Jaipur (NGO) that uses NLP for helping the teachers in teaching road safety in schools.

SHAPE FOLLOWER BOT | GITHUB

OpenCV, Python, Arduino Programming, PySerial

- Computer Vision based bot that uses an onboard camera to detect a path formed by circles. It navigates it autonomously and is capable of shape detection and barcode reading. Developed and 3D printed custom in-house hardware to solve the PS from IIT Kharagpur Techfest 2020.

HONORS & ACTIVITIES

- Core Team Member - FOSSASIA Web Dev Team 2021-Present
- ML and Robotics lead - IIIT Kota Codebase 2020-Present
- Grand Prize Winner - FOSSASIA Codeheat 2021
- Web Admin - Placement Cell IIIT Kota 2021-2022
- Team Member - ELDA Lab 2021
- Part of ZINE Robotics and Research Group (zine.co.in) and regularly participated in robotics events across the country, including IIT Kharagpur. 2019-2022
- Successfully conducted a 15-day robotics workshop for 100+ students with a team of 10 Members. 2020