

SWAPNANEEL PATRA

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EDUCATION

Indian Institutes of Technology

Master of Technology in Artificial Intelligence & Data Science Engineering

Patna, India

Aug. 2025 – Present

KIIT University

Bachelor of Technology in Computer Science and Engineering, CGPA: 8.39/10

Bhubaneswar, India

June 2019 – Aug. 2023

EXPERIENCE

Undergraduate Research Assistant

Texas A&M University

June 2020 – Present

College Station, TX

- Developed a REST API using FastAPI and PostgreSQL to store data from learning management systems
- Developed a full-stack web application using Flask, React, PostgreSQL and Docker to analyze GitHub data
- Explored ways to visualize GitHub collaboration in a classroom setting

PROJECTS

Gitlytics | Python, Flask, React, PostgreSQL, Docker

June 2020 – Present

- Developed a full-stack web application using with Flask serving a REST API with React as the frontend
- Implemented GitHub OAuth to get data from user's repositories
- Visualized GitHub data to show collaboration
- Used Celery and Redis for asynchronous tasks

Simple Paintball | Spigot API, Java, Maven, TravisCI, Git

May 2018 – May 2020

- Developed a Minecraft server plugin to entertain kids during free time for a previous job
- Published plugin to websites gaining 2K+ downloads and an average 4.5/5-star review
- Implemented continuous delivery using TravisCI to build the plugin upon new a release
- Collaborated with Minecraft server administrators to suggest features and get feedback about the plugin

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R

Frameworks: React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI

Developer Tools: Git, Docker, TravisCI, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Libraries: pandas, NumPy, Matplotlib