

Praval Kollipara

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EDUCATION

Purdue University (West Lafayette, IN)

December 2024

Computer/Data Science Double Major with Political Science and Entrepreneurship Minors

- Organizations: Purdue Student Government, BoilerBlockchain
- Awards: Dean's List and Semester Honors (x6), Proclamation from City
- Classes/Courses: Object-Oriented Programming | Discrete Math | Programming in C | Data Structures and Algorithms | Computer Architecture | Systems Programming | Machine Learning | Statistics and Probability

WORK EXPERIENCE

EDict

December 2023 - May 2024

Co-Founder

- Co-founded an Ed-tech startup utilizing upcoming tech in LLMs through Retrieval Access Generation (RAG).
- Developed 3 microservices to elevate the live learning experience using LLMs and live transcription models.
- Spearheaded talks with Purdue University faculty to pilot the software during CS lectures.

Eaton (Peachtree City, GA)

May 2023 - August 2023

Software Engineer Intern

- Experimented with 4 core APIs using Postman and interacted with Ubuntu, Docker, and Azure cloud services.
- Developed 10+ Python test cases to test APIs for the Eaton Smart Breaker product.
- Practiced Scrum methodology to drive collaborative project development, regular sprint cycles, and achieve high-quality results.

Wyzant (Remote)

August 2021 - May 2023

Academic Tutor

- Delivered a tutoring experience to students in grades K-12 on various academic subjects.
- Strategize to keep students engaged for 1+ hours by maintaining a record of students' progress.
- Gained 39 5-star reviews after 80+ hours of tutoring.

PROJECTS

Pete's House

May 2024 - Current

An exclusive Purdue Marketplace for students to buy/sell tickets, clothes, textbooks, etc.

- Developed the front end using React.js, Vite, and Tailwind CSS.
- Building the back end using Python, Flask, PostgreSQL, SQLAlchemy, and Unicorn
- Implemented Two-Factor Authentication to verify Purdue students using Flask libraries.
- Secured funding from SVBIG, a Purdue-based venture capitalist group, for this idea.

Tree Coverage and Climate Change

August 2023 - December 2023

A K-Nearest Neighbors Approach.

- Developed a KNN Model to categorize the 50 U.S. states based on effectiveness in using tree coverage to mitigate climate change.
- Innovatively bootstrapped training data for 5 states, using in-depth analysis from various research papers, and applied model on remaining 45 states.
- Analyzed model results to provide insight into state-wise performance, contributing to a deeper understanding of ecological data about climate change mitigation efforts.

Reinforcement Learning Undergraduate Research

June 2022 - December 2022

- Investigated implementation of Decision Transformers in Mathematics and Technology.
- Led under the supervision of Purdue professor - Vaneet Aggarwal.

Password Generator

June 2022 - August 2022

A web application that makes a randomly generated password with client-chosen qualities.

- Developed the application using HTML, CSS, and JavaScript for front end.
- Coded 3 Python REST APIs to facilitate client-server communication and communicate user's password requirements to database servers hosted on a local server.

LEADERSHIP EXPERIENCE

Purdue Student Government (West Lafayette, IN)

August 2021 - Current

Chief of Staff

- Supervising 9 committees with over 10+ members, each serving a unique facet of the student body.
- Facilitate and lead collaborative discussions with 100+ members bi-weekly.
- Orchestrated 10+ large-scale sustainability-themed events each year attracting roughly 100 students.

SKILLS

Skills: Python | Java | JavaScript | HTML/CSS | C | C# | C++ | SQL | Linux | Flask | REST | React.js (Vite)