

Prithwish Dan

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EDUCATION

Cornell University

Ithaca, NY

Bachelor of Science in Computer Science, GPA - 4.135

Expected Graduation: May 2024

- Current Coursework: Robot Learning, Game Development, Language and Information
- Completed Coursework: Intro to ML, Optimization, Operating Systems, Analysis of Algorithms, Backend Development, OOP & Data Structures

EXPERIENCE

poRTaL Lab

Ithaca, NY

Undergraduate Machine Learning/Robotics Researcher

Jan. 2023 – Present

- Researching and implementing ML models in PyTorch for human motion forecasting to enable seamless human-robot interaction in continuous, collaborative settings
- Collecting human motion data with Motive and integrating predicted forecasts with multiple robots using ROS

MongoDB

New York City, NY

Incoming Software Engineering Intern

Oct. 2022 – Present

- Incoming Software Engineering Intern @ MongoDB in Summer 2023

Cornell University

Ithaca, NY

CS 4820 Analysis of Algorithms - Teaching Assistant (FA22, SP23)

Aug. 2022 – Present

- Holding office hours, review sessions, and grading exams/assignments for a course in Algorithms with 350+ students

Cornell Cup Robotics - C1C0 CS Systems Team Lead

Aug. 2022 – Dec. 2022

- Leading systems development and integration for 30+ Software Engineers working on Path Planning, Object Detection, and a Chatbot

CS 3110 Data Structures and Functional Programming - Consultant (SP22)

Jan. 2022 – May 2022

- Assisted a course with 400+ CS students by holding office hours to answer relevant questions and grading exams/assignments

Cornell Cup Robotics - C1C0 CS Path Planning Team Lead & Software Engineer

Sept. 2021 – May 2022

- Led a team of 8 Software Engineers to develop and test algorithms for autonomous robot path planning
- Optimized Server-Client architecture to automate robot path planning and locomotion, increasing data transmission speed by ~33%

Northwestern Mutual

Milwaukee, WI

Software Engineering Intern

June 2022 – Aug. 2022

- Worked in an Agile environment to develop components of the content factory pipeline in order to modernize document handling in the life insurance market with e-delivery across all 50 states
- Migrated test cases from 100+ repositories into a Zero Touch Quality Assurance automated testing infrastructure

PROJECTS

🔗 **Smite Discord Bot** | JavaScript (Node.js), discord.js, Axios, Smite API, Heroku, Postman

- Created a discord bot using discord.js features to deploy relevant commands for players of the game Smite

🔗 **Reddit Analysis Tool** (NLP/ML) | OCaml, OUnit2, OWL

- Developed a system to analyze subreddits on the Reddit platform, generating text-based prediction algorithms and information using Natural Language Processing and Machine Learning techniques

🔗 **Show Tracker App** | Python, Flask, SQL, Heroku, Docker, Postman

- Collaborated with a team of 5 developers to design a backend infrastructure with a relational database and deploy a RESTful API with 10+ HTTP routes for a show-tracking iOS application

TECHNICAL SKILLS

Languages: Java, Python, OCaml, JavaScript/TypeScript, C/C++

Frameworks/Technologies: PyTorch, NumPy, Pandas, ROS, JUnit, Flask, Node.js, SQL/NoSQL Databases

Developer Tools: Git, Docker, Linux/Unix, Windows, Asana, Jira, AWS, VSCode, JetBrains, Postman