

Yitian Gao

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Education

Purdue University
BS in Computer Science (Machine Intelligence)
Minor in Economics

West Lafayette, IN
GPA: 3.78/4.0
Est. Dec. 2024

Projects

05/2023 - 07/2023

Mobile Food App

- Developed a Mobile food app on Apple IOS using React Native with Expo
- Set up a backend Mongo database service
- Integrated with Google Maps API and 20+ interactive panels

03/2023 - 04/2023

Shell Project

- Developed a fully functioning Linux shell (1.5K lines of code) in C and C++
- Implemented shell features, including piping, subshell, wildcarding, line editor, history
- Used lex and yacc regular expression parsing

08/2022

Personal Website

- Developed a personal website using HTML, CSS, and JavaScript

05/2022-08/2022

Python Games

- Developed games Snake, Connect 4, and Tetris in Python
- Improved space efficiency of open-source code by 300% by replacing critical components with own solutions

Experiences

08/2023 - Present

Purdue Space Program: Spaceport - Avionics Subteam

- Working on the research and development (RAD) flight computer project
- Developed code to implement altimeter, radio, gps, and data recording functions

08/2022 - 05/2023

Autonomous Motorsports Purdue - Simulator Subteam

- Developed a race simulation system for kart, Gazebo and RViz in ROS 2 operating system

Skills

- **Computer Science Coursework:** Data Structures & Algorithms, Computer Architecture, Database Systems, Systems Programming, Machine Learning, Internet Protocols, Linux Systems, Dynamic Programming, Multithreading
- **Languages:** C++, Java, C, Python, SQL, HTML, CSS, Shell Scripting, JavaScript
- **Framework & Database:** React Native, ROS 2, SQLite, MongoDB

Achievements

- Dean's List & Semester Honors - Fall 2021 - Spring 2023
- Eagle Scout - March 2021