

Rohan Purandare

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Education

Purdue University, West Lafayette

GPA: 3.79 • Graduating May 2024 (*Expected*)

- Bachelor of Science in Computer Science
 - Concentration in Software Engineering, Security, and Algorithmic Foundations
- Minor in Mathematics
- Certificate in Applications of Data Science

Experience

Product Software Engineer • PTC

Boston, MA • Summer 2021

- Automated the API specification for the Creo product by parsing through files using go-swagger and then converting to OpenAPI 3.0.0 using swagger2openapi.
- Created a program in Golang that analyzed a file to create a new file with the appropriate helper methods in creating the API Specification.

Lecturer/Course Lead • Purdue University

West Lafayette, IN • Spring 2022 – Present

- Lecturer for CS 193: Tools, where I taught students the fundamentals of software development including git, terminal, and debugging

Undergraduate Teaching Assistant • Purdue University

West Lafayette, IN • Fall 2021

- Assisted in grading assignments, providing instructional aide to students, and holding office hours.

Computer Science and Mathematics Tutor

Virtual • Summer 2019 – Present

- Create the lesson plan beforehand using original resources and providing several examples for clarification, while integrating school work.
- Accommodate each student's needs by varying the speed of the lesson, inviting clarifying questions, and testing their level of engagement and understanding by supplying them with original questions.

Projects

Boilermaker Airlines Graph Project

- Implementing Dijkstra's and Kruskal's algorithm in Java, efficiently determined whether it was feasible for a point in a graph to add another point to its regional and global networks.

ChromeCart

- A Chrome extension made in JavaScript, HTML, and CSS that allows users to aggregate their shopping lists across various shopping sites.

SongSearcher

- Prompted user for lyric or BPM input, searched through MusixMatch API for lyric match and displays top five song matches with respective information using React, JS, HTML, & CSS

Image Manipulator

- Analyzed each pixel from images of various dimensions and applied functions to them to retrieve and manipulate data from neighboring pixels, eventually applying various filters on the image in C.

Virtual Assistant

- Used API-FOOTBALL and AccuWeather APIs to return the major soccer games occurring on that day or the weather of any city around the world respectively and analyzed JSON files to highlight important information in Java that the virtual assistant returned.

Relevant Coursework

- Systems Programming
- Software Engineering
- iOS Development
- Data Structures and Algorithms
- Computer Architecture
- Web Application Programming
- Programming in C
- Foundations of Computer Science
- Object-Oriented Programming
- Linear Algebra
- Multivariate Calculus
- Intro to Statistics

Languages

- Java
- C
- C++
- Python
- Golang
- JavaScript
- HTML
- CSS
- LaTeX
- Dart
- R
- x86 Assembly

Organizations

- Undergraduate Student Board for Computer Science and Data Science
- Purdue LaunchPad
 - Advertising and Communications Lead

Activities

- BoilerMake IX Hackathon
- BoilerMake VIII Hackathon
- Hello World Hackathon

Interests and Hobbies

- Machine Learning
- Artificial Intelligence
- Computer-assisted education
- Soccer
- Playing guitar and piano
- Singing and beatboxing
- Rubik's puzzles