

# Rohan Purandare

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## Education

**Purdue University** - West Lafayette, IN  
Graduating May 2024 (Expected)

GPA: 3.83/4

BS in Computer Science

- Concentrating in Software Engineering, Machine Intelligence, Security, Algorithmic Foundation, Databases and Information Systems

Minor in Mathematics

Certificate in Applications of Data Science

## Relevant Coursework

- Introduction to the Analysis of Algorithms
- Operating Systems
- Software Testing
- Systems Programming
- Software Engineering Senior Project
- Software Engineering
- Information Systems
- iOS Development
- Data Structures and Algorithms
- Computer Architecture
- Web Application Programming
- Programming in C
- Foundations of Computer Science
- Object-Oriented Programming

## Languages

- Java
- C
- C++
- Python
- Golang
- JavaScript
- HTML
- CSS
- Bash
- LaTeX
- Swift

## Organizations

- *Director* - BoilerMake Hackathon
- *Vice President* - Undergraduate Student Board of Computer Science
- *Former Advertisement and Comm. Lead* - Purdue LaunchPad

## Activities

- Microsoft Tech Resilience Mentorship Program
- BoilerMake IX Hackathon
- BoilerMake VIII Hackathon
- Hello World Hackathon

## Experience

**Software Development Engineer Intern** • Amazon AWS

Seattle, WA • May 2022 - Aug 2022

- Successfully migrated the retrieval of streaming instance information and Data Plane log statement data from Elastic Search to their respective databases.
- Prevented unnecessary spending and data loss on AppStream's Photon Ops Console by developing a new data pipeline.

**Product Software Engineer Intern** • PTC

Boston, MA • Jun 2021 - Aug 2021

- Automated the API specification for the Creo product by managing RestAPI requests, 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.

**Undergraduate Teaching Assistant** • Purdue University

West Lafayette, IN • Aug 2021 - Dec 2021, January 2023 - Present

- Assisted in grading assignments, providing instructional aid to students, and holding office hours in CS 381 (Introduction to the Analysis of Algorithms) and CS 193 (Tools).

**Lecturer/Course Lead** • Purdue University

West Lafayette, IN • Dec 2021 - Dec 2022

- Lecturer for CS 193 Tools, teaching over 900 students the fundamentals of software development including git, terminal, and debugging.

**Computer Science and Mathematics Tutor**

Virtual • Jul 2019 - Aug 2022

- Accommodate each student's needs by varying lecture speed, inviting clarifying questions, and testing their level of and understanding with original questions.

## Projects

**Shell Interpreter**

- Combines behavior from common shells including bash and csh using C and C++ to execute the commands inputted by the user and Lex, and Yacc to process the user input.

**Memory Allocator**

- Allows users to malloc() and free() memory as needed, requests large chunks of memory from the OS if needed, and manages all the bookkeeping and memory efficiently in C.

**Purdue Circle**

- Created a mobile application using Android OS and Firebase to allow Purdue students to share digital content, direct message, and interact with one another.

**ChromeCart**

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