

Jack Furmanek

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EDUCATION

Purdue University

May 2025

B.S. Computer Science - GPA: 3.4

West Lafayette, IN

- Additional minor in Mathematics, which promotes acute critical thinking and problem-solving skills.
 - Frontend/Cloud Development: “Software Engineering I”, “Object-Oriented Programming”
 - Backend Development: “Operating Systems”, “Systems Programming”, “Information Systems”
 - Data Structures and Algorithms: “Data Structures & Algorithms”, “Analysis of Algorithms”
 - Mathematics: “Foundations of Analysis”, “Linear Algebra”

PROJECTS

GameQuill - React, Google Cloud, Firebase, Cloud Firestore

- GameQuill is a website that allows users to log and track different video games that they’ve played in an account-based system.
- The website features social media elements such as followers, likes, and comment sections, and is intended to foster discussion, communication, and interest surrounding video games.

jackfurmanek.com - Python, JavaScript, HTML/CSS, Three.js

- Created a personal portfolio website used to highlight some of my work and accomplishments related to my career and education.

MyShell/MyMalloc - C, C++, Vi Editor, Linux

- Created a personal shell that allows a user to execute commands via a command line, as well as a personal Malloc allocator that allows a programmer to create, use, and delete pointers to allocated memory.

LEADERSHIP

Boilerexams

Apr. 2023 – Present

Content Team Lead

West Lafayette, IN

- Boilerexams is a student-run website that integrates previously-given Purdue University exams with pre-recorded video explanations and statistics tracking.
- As the organization’s Content Team Lead, I lead meetings among our explanation creators, maintain conversations with our development and relations teams, and oversee new additions to the project.
 - Over 900,000 questions answered in the Fall 2023 semester, and 3.1 million since the website’s founding in 2020
- Additional responsibilities include recording, uploading, and maintaining the website’s “Data Structures & Algorithms” and “Calculus I” material.

Mathematics Tutor

May 2023 – Aug. 2023

Chesterton, IN

Boys and Girls Club

May 2022 – Aug. 2023

Youth Development Professional

Chesterton, IN / South Haven, IN

SKILLS

- Programming Languages: Python; Java; C; C++; JavaScript; SQL; HTML/CSS
- Frameworks, Services, and Software: React; Google Cloud, Firestore DB; Flask; PostgreSQL; Visual Studio Code; IntelliJ IDEA; Three.js; Github; Windows; Linux