

# Jack Michael Furmanek

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## OBJECTIVE

Seeking a Summer 2024 internship, within the software engineering and development environment, utilizing my relevant experience, technical ability, and problem-solving skills.

## EDUCATION

Purdue University, West Lafayette, IN

May 2025

Pursuing a Bachelor of Science Degree in Computer Science

Concentration in Software Engineering

Key classes: CS 25100, Data Structures and Algorithms; CS 25200, Systems Programming; CS 38100, Introduction to the Analysis of Algorithms

## WORK EXPERIENCE

Explanation Creator – Boilerexams

April 2023 – Present

- Record explanation videos for Boilerexams, a student-run website that integrates previously given Purdue exams with pre-recorded video explanations
- Tasks include determining how to best explain each problem on a given exam, record the explanation, communicate with others on my progress, and maintain my portion of the website

Youth Development Professional – Boys & Girls Club

May 2022 – August 2022, May 2023 – August 2023

- Work with young children to develop their interests and help them grow into responsible, caring, and productive young adults
- Manage heated conflicts that arise between members, and relay those conversations and information to the respective parents or guardians, as well as fellow coworkers

## SKILLS

- Languages – Java, C C++, Python, HTML/CSS
- Software – Windows, Linux
- Development Tools – IntelliJ IDEA, Vim, GDB
- Interpersonal Skills – Education, Leadership, Communication, Conflict Management

## RELATED PROJECTS

- GameQuill – Designed and implemented a web app that allows users to discover, rate, and share their favorite games via a curated home page, social media services, and a customizable profile page. Frontend coded using React; backend coded via Firebase. Group project with three others. September 2023 – Present
- 2023 Personal Website Redesign – Fully redesigned my personal portfolio website hosted on jackfurmanek.com. Properties of the site include the use of Three.js for 3D visual effects and rudimentary HTML/CSS. August – September 2023
- MyShell/MyMalloc – 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. Given as CS 25200 assignments. February – April 2023