

Jack Furmanek

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WORK EXPERIENCE

Boilerexams

Apr. 2023 – Present

Content 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 Lead, I lead meetings among our explanation creators, maintain conversations with our development and relations teams, and oversee new applications and additions to the project.
 - Over half a million questions answered in the Fall 2023 semester, and 2.5 million since the website's founding in 2020
 - www.boilerexams.com
- Additional responsibilities include recording, uploading, and maintaining the website's MA 16100 (Calculus 1) exams and material.

Mathematics Tutor

May 2023 – Aug. 2023

Chesterton, IN

- Demonstrated expertise in breaking down mathematical theories and problems into understandable segments for students of various age groups and learning abilities in high school.
- Seventeen students were assisted over the summer, all of whom admitted to feeling more prepared for their upcoming academic year and enjoyed my assistance.
- As a self-run business, I was also responsible for maintaining communication with clients, scheduling meetings that work for all parties, and devising solutions for any problems that arise.

Boys and Girls Club of Greater NWI

May 2022 – Aug. 2023

Youth Development Professional

Chesterton, IN / South Haven, IN

- Worked with young children to develop their interests and help them grow into responsible, caring, and productive young adults.
- Acted as a leader and mentor for members, ensuring a safe environment and fostering teamwork, cooperation, and respect.
- Manage conflicts that arise between members, and relay those conversations and information to the respective parents or guardians, as well as fellow coworkers.

EDUCATION

Purdue University

May 2025

B.S. Computer Science / Min. Mathematics

West Lafayette, IN

- Concentration in Software Engineering, a track that focuses on engineering principles in programming
- Classes focus on optimal algorithm design, working in teams, and overall good coding practice
 - CS 381 "Analysis of Algorithms" – Problem solving; quality algorithm/data structure analysis and design
 - CS 354 "Operating Systems" – Implementation and architecture of operating systems
 - CS 307 "Software Engineering I" – Utilizing teamwork skills in a real-world programming setting

PROJECTS

Sever

- Sever is a mobile app that allows users to keep better track of their recurring costs, and rewards them for quitting unnecessary purchases.
- The app keeps track of how much money the user has saved by quitting different services (e.g. Netflix, eating out), and lets the user reallocate this money towards guilt-free, one-time purchases.
- Android version developed with Android Studio and Kotlin; iOS version developed with Xcode and Swift

GameQuill

- GameQuill is a website that allows users to log 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.
- Developed with React in IntelliJ IDEA utilizing Firebase services such as accounts and Firestore Database. Created alongside three others as a group project.

Personal Website

- Created a personal portfolio website used to highlight some of my work and accomplishments related to my career and education.
- Developed using HTML/CSS and the Three.js framework; hosted on Github Pages.

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.
- Developed in the Vi editor in C++.

SKILLS

- Programming Languages: Java; C; C++; Kotlin; Swift; Python; HTML/CSS
- Frameworks, Services, and Software: React; Firebase; Android Studio; Xcode; IntelliJ IDEA