

Jonathan Zavialov

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EDUCATION

Pennsylvania State University

2022 – Present

Pursuing B.S. Degree in Computer Science (2026), minor in Mathematics and Engineering Leadership Development

- Current GPA of 3.78, Dean's List

PROFESSIONAL EXPERIENCE

Penn State Daily Collegian – Business Insights Director

2023 – Present

- Led a team to develop and launch a new website for the department using React
- Conducted research to optimize functionality of the website, considering user experience and accessibility
- Used data analysis techniques and AI powered language sentiment analysis to optimize user engagement

Magna-Power Electronics – Computer Science Intern

2023 – 2023

- Developed a user-friendly GUI for computer-based control of the company's power conditioning products with Python and PySide, optimizing user experience and simplifying usage and monitoring of the products
- Built a patch file system, enabling customer support to create and apply machine updates through the interface
- Enhanced product-computer API communication reliability through feature implementations and bug fixes

Central Bucks School District – Technology Assistant

2019 – 2021

- Assisted with the troubleshooting, installation, and updating of school software
- Handled the preparation of the school's technology for the upcoming school year

LEADERSHIP EXPERIENCE

Blockchain@PSU – President

2023 – Present

- Defined club objectives and deliverables for the year, executed events, meetings, and engagement strategies
- Guided the outreach team to create a newsletter and streamline communication with club members
- Fostered collaboration with industry professionals to organize networking opportunities for club members

Penn State Math LA Program – Math 140 (Calculus 1) Learning Assistant

2022 – Present

- Developed, implemented, and conducted study sessions to improve student performance on exams
- Encouraged students to ask questions during class and worked with them to find solutions to their specific concerns
- Collaborated with faculty to create supplementary materials, providing additional resources for student success

EXTRACURRICULAR ACTIVITIES

University Park Undergraduate Association (UPUA) – At Large Representative

2023 – Present

- Represented the undergraduate student body by drafting impactful legislation promoting community, equity, and inclusion, as well as contributing valuable insights to Justice & Equity and Academic Affairs committees
- Engaged with a diverse set of on-campus organizations, effectively representing their interests and fostering collaborative efforts for the enhancement of campus initiatives
- Cast votes in support of initiatives aligned with my core values, contributing to the advancement of key principles

Penn State Libraries Undergraduate Research Jumpstart Program

2023 – Present

- Learned about the research application process, including communicating with mentors and finding opportunities.
- Developed analytical skills through workshops, laying a strong foundation for future research endeavors
- Fostered a collaborative environment and gained insights into diverse research methodologies

PERSONAL PROJECTS

Portfolio Website – jonzav.me

- Designed and implemented a visually appealing user interface to showcase previous projects and skills
- Wrote a backend in NodeJS with Express to support API calls and a chat room, using Git for version control

Personal Project – Locatia

- Developed a web application using React for the front-end and Firebase for the backend, including user authentication through multiple open authorization providers and databases.
- Implemented cloud storage functionality using Firebase Storage to efficiently store and retrieve user data and media.