# 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 3.59, Dean's List

## PROFESSIONAL EXPERIENCE

**Penn State Daily Collegian –** Business Insights Director                                             2023 – Present
- Designed, developed, and deployed a responsive React-based analytics platform, collaborating with editors and stakeholders, implementing efficient data structures to manage application state and API data.
- Leveraged Python scripts and AI-driven sentiment analysis on reader feedback and engagement metrics to identify high-impact improvements, informing prioritization of new features and contributing to gains in session duration and repeat visits.

**Magna-Power Electronics –** Computer Science Intern                                                   2023 – 2025
- Developed a PySide GUI for controlling and monitoring power conditioning products, architecting modular Python modules to automate device configuration, improving technician productivity.
- Engineered a critical stockroom management application with a FastAPI backend and Qt-based scanner frontend; implemented fault-tolerant API-database communication with an ERP system and automated CI/CD pipelines.

**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                                                                         2022 – 2023
- 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 – 2024
- Developed, implemented, and conducted study sessions to improve student performance on exams
- Led weekly problem-solving workshops, diagnosing conceptual gaps and facilitating targeted interventions.
- Collaborated with faculty to create supplementary materials, providing additional resources for student success

## EXTRACURRICULAR ACTIVITIES

**University Park Undergraduate Association (UPUA) –** At Large Representative                           2023 – 2024
- 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 – 2023
- 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**
- Developed a responsive, user-centric portfolio interface, showcasing past projects and skills
- Built a Node.js and Express backend API supporting real-time RESTful data services; implemented robust error handling and maintained code integrity with Git, improving overall system reliability.

**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.