

Current Address  
State College, PA 16801

Permanent Address  
Devon, PA 19333

OVERVIEW

Penn State Data Science and Computer Science double major with hands-on experience in building big-data pipelines, optimizing databases, developing AI models, and driving standardization initiatives. An enthusiastic problem-solver eager to leverage technical skills in data-driven environments.

EDUCATION

**Bachelor of Science Data Science Statistical Modeling** (Aug 2022 - May 2026)  
**Bachelor of Science Computer Science** GPA: 3.71  
*Penn State* - University Park, PA  
Minor in Political Science  
Dean's List, Phi Eta Sigma Honors Society  
Relevant Coursework: Statistics, Applied Regression Analysis, Technical Writing, Machine Learning, Data Ethics

EXPERIENCE

**Data Automation Intern** (May 2024 - Nov 2024)  
*Sanofi Pasteur* - Swiftwater, PA  
A global pharmaceutical company developing vaccines to treat chronic and infectious diseases.

- Collaborated with the Project Controls team to develop a big data pipeline that automated monthly deliverables for financing and tracking site projects; providing quicker turnaround times.
- Improved project management efficiency by automating data workflows, projected to save \$300K annually through Power BI tools and process optimizations.
- Reduced lead time from two weeks to one day and cut cycle time from 30 to 3 hours, streamlining budget evaluation, reducing human error, and enhancing decision-making.
- Initiated global company-wide talks about automation rollout, standardization, and data practices.
- Developed data analysis tools in Power BI, Excel, VBA, and SAP databases.

**Data Scientist** (Jan 2024 - May 2024)  
*Nittany AI Advance / Red Cross* - State College, PA  
Research teams with industry partners focused on artificial intelligence solutions, services, and outreach projects.

- Collaborated with the Red Cross to develop several AI models to predict recurring blood donations.
- Trained models and performance evaluation utilizing Python Pandas, SQL, R, and Jupyter Notebooks.
- Authored comprehensive documentation and presented findings to technical heads and investors.
- Communicated with clients to align and manage expectations, improving client insight and satisfaction.

**Internal Development Intern** (Jun 2023 - Aug 2023)  
*Edmund Optics* - Barrington, NJ  
Global supplier and manufacturer of photonics, optics, and imaging technology.

- Created an artificial intelligence model to predict the future spending habits of new customers.
- Developed skill matrix database for managers to organize training, improving workforce management.
- Utilized VBA, SQL databases, and Python to create the backend and GUI for both projects.
- Organized data practices across the manufacturing department, and developed standardized data entry.

**Hardware Integration Intern** (Jun 2021 - Jul 2021)  
*Third Wave Automation* - Union City, CA  
Company integrating ML for autonomous forklifts to operate with remote oversight.

- Developed PTZ camera system that enabled operators to monitor autonomous forklifts remotely.
- Built a prototype to determine the feasibility of new hardware deployments for management.
- Designed and machined mounting hardware for the demonstration unit, including microcontrollers.

PROJECTS

**Co-Founder** (Apr 2024 - Nov 2024)  
*Pique LLC* - State College, PA  
An app for increasing engagement for college students through event organization and outreach.

- Developed the iOS backend of the app, utilizing Swift and Firebase as a database.
- Built Website with Python, Swift, JS, and HTML, in addition to HTTP requests.

**Developer** (Jan 2024 - Mar 2024)  
*Nittany Compass* - State College, PA  
Web tool to optimize course scheduling for PSU student's general education requirements.

- Developed site UX, server backend, and web scrapers using Python, HTML, JS, and CSS.
- Utilized optimization algorithms, database management, data mining, and the GitHub ecosystem.

SKILLS

**Technical**

- Strong in Python, SQL; Proficient in JS, C; Experience with Java, TypeScript, Swift, and HTML.
- Experience in big data analytics in the MS ecosystem: Excel Macro, VBA, Power Query, Power BI.
- Worked on personal projects including epidemic models, social apps, and education tools.
- Experience in artificial intelligence models in competitions and professional settings.
- Used hardware implementation including robotics, 3D design, microcontrollers, and metalworking.

**Hobbies**  
Racquet Sports    Global History    Game Development    Chess