Lucas Sadoulet

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Current Address	Permanent Address
State College, PA 16801	*Devon, PA 19333*

OVERVIEW

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

EDUCATION

Bachelor of Science Computer Science — May 2026
Bachelor of Science Data Science Statistical Modeling — GPA: 3.71
Penn State - University Park, PA
Minor in Political Science
Dean's List, Phi Eta Sigma Honors Society
Relevant Coursework: Linear Programming, Computational Theory, OS, Technical Writing, Data Algorithms

EXPERIENCE

Software 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 on monthly deliverables for financing and tracking site projects, by automating big data and developing internal development tools.
- 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, Python, and SAP databases

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.

RESEARCH

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.

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

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