David Saldubehere

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EDUCATION

The Pennsylvania State University | Schreyer Honors College **University Park, PA | 4.0 GPA**
College of Engineering | B.S. in Computer Science *Class of 2025*
Eberly College of Science | B.S. in Mathematics

EXPERIENCE

Sheetz **Claysburg, PA**
Applications and Development Intern *May 2023-Present*
- Worked on a project to capture data regarding competitor pricing of various convenience products
- Software is now in production and is being used by 1000+ corporate and store employees across the U.S.
- Gained valuable experience with the Agile development process and technologies such as OpenShift, Docker, Kubernetes, Java, Spring Boot/MVC for the API backend, Hibernate, and GitLab
- Designed front-end UIs with React, Remix, Figma, Tailwind CSS, Bootstrap, and Material UI
- Ran penetration tests and patched security vulnerabilities such as XSS, CSRF, and SQL Injections with the Checkmarx security suite

Pennsylvania State University Office of Research Information Systems **University Park, PA**
Software Engineering Intern *May 2023-Present*
- Developed a project to drastically reduce deployment time of software releases by adding the capability to hot-reload critical data in all production research applications used in Penn State Research
- Gained valuable experience with C#, SQL Server, Azure CI/CD, ASP .NET Webforms/MVC, and Visual Studio
- Learned how to secure and process large amounts of sensitive data via firewalls, Active Directory, and DB roles

LEADERSHIP & INVOLVEMENT

Pennsylvania State University Website Development Club *April 2023-Present*
Founder and President
- Created and presented lectures on modern website development including UI frameworks and database designs
- Supplied student start-ups with resources such as website creation, hosting, and domain names with club funding
- Established connections with industry professionals and invited them to share their expertise with club members

CURRENT PROJECTS

3D Printing Club Mobile App
- Developing a React Native app for the PSU 3D printing club with additional Swift and Java code add-ons
- Current functions include printer status integration, club chat, and announcements synced with GroupMe
- Built a Django REST backend with a MySQL database to handle storage and JWT authentication
- Deployed production app to the Apple App Store and Google Play Store

GeoRouter
- Published an open-source Python pip library that provides a custom offline navigation engine with scenery in mind
- Users can configure their scenery preferences via number ratings which influences shortest path algorithms
- Automatically manages elevation and map data via SRTM and Open Street Maps data downloads
- Processes ratings by using a DBSCAN algorithm to cluster desired points and map hulls to the road graph

HONORS, SKILLS & INTERESTS

Honors: Mifflin County High School Valedictorian, President's Education Excellence Award, Margaret C.M Scholarship
Languages: Proficient in Python, C#, Java, JavaScript, Bash, PowerShell, Embedded C/C++, R, HTML/CSS
Technologies: Spring, OpenShift, Docker & Kubernetes, Git, React.js, Django, MySQL, SQL Server, PyTorch, Figma
Interests: Expert in 3D printing technologies, Microcontrollers (RaspberryPi, Arduino), Machine Learning, Graphic Design