

# David Rohweder

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## EDUCATION

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### Pennsylvania State University

Aug. 2019 – May 2023

*Bachelor of Science in Computer Science*

*University Park, PA*

- Achieved Dean's List recognition for 6 out of 8 semesters with a cumulative GPA of 3.51
- Facilitated as a Teaching Assistant in the Computer Science Department for the Mobile Applications course
- Awarded the Penn State Undergraduate Scholarship for Talented Students

### Berks Career & Technology Center

Aug. 2016 – May 2019

*MIS-IT Programming - Dual Enrollment During High School*

*Leesport, PA*

- Earned 2nd place in the SkillsUSA PA Computer Programming competition in 2018 and 3rd place in 2019

## EXPERIENCE

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### Systems Engineer Intern

May 2019 – Aug. 2022

*Rosenberger North America*

*Akron, PA*

- Maintained Active Directory and served as a global admin on the companies GCC O365 tenant
- Administered vSphere environment across two sites and played an active role on the disaster recovery team
- Deployed Manage Engine servers and services, resulting in a 80% improvement in automation for SysAdmins
- Minimized downtime for critical infrastructure during unexpected outages by mediating VMs and services

### Contracted Software Developer

Sep. 2018 – Dec. 2020

*Expeditionary Interest Group*

*Leesport, PA*

- Served as the lead architect for the development of the patented Penny Helper software for nonprofit organizations
- Optimized revenue by designing a solution to mine BTC and ETH utilizing constituents' idle computer time
- Improved release turnaround time by 50% through the implementation of agile methodology and regular updates

## PROJECTS

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### AR Solar System Simulator | *SwiftUI - SceneKit, ARKit, UIKit*

Aug. 2022 – Present

- Actively maintaining an Augmented Reality simulator designed for educating about our solar system
- Streamlined a responsive AR to allow the user to maneuver their camera around and observe a 3D selected planet
- Empowered users with access to NASA information, emphasizing education as a key aspect of the project

### Parallel Programming Research Project | *C - OpenMP, Shell*

Jan. 2022 – May 2022

- Spearheaded a team project to explore parallelization techniques for Dijkstra's and Bellman-Ford algorithms
- Developed complete Dijkstra solution, including graph data structure, data generator, tests, and performance tests
- Steered the integration of the Bellman-Ford algorithm into the analysis execution

### E-Commerce | *Python - Flask & Blueprints, SQLite*

Jan. 2022 – May 2022

- Built a comprehensive E-Commerce site from scratch using Python and Flask
- Provided the abilities for buyers to purchase products from sellers, sellers to publish products, and more features
- Facilitated the ability for buyers to create an account, change their password, and request seller access

### Linux File System Driver | *C, C Network Programming*

Aug. 2021 – Dec. 2021

- Constructed a file system driver that interfaced between a simulator and the disk controller on a local server
- Replicated OS capabilities, including open/close, read/write, seek, and file creation/maintenance operations
- Implemented an LRU cache for data access efficiency while using several diverse workloads for output validation

## TECHNICAL SKILLS

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**Languages:** C/C++, Swift/ SwiftUI, Java, Python, Verilog HDL, SQL (MySQL, MongoDB, SQLite), VB.NET

**Frameworks and Libraries:** Dask, Flask, OpenMP, Open MPI, ARKit, SceneKit, MapKit, UIKit

**Styles & Methodologies:** OOP, MVVM, MVC, Functional, Procedural, Agile (Scrum)

**Developer Tools:** Git, Amazon Web Services (AWS), VS Code, Visual Studio, PyCharm, Docker, Eclipse, Xcode

**Operating Systems:** Linux, MAC OS, iOS, Windows