

# David Rohweder

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## EDUCATION

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### Pennsylvania State University

*Bachelor of Science in Computer Science, Dean's List*

Aug. 2019 – May 2023

*University Park, PA*

### Reading Area Community College

*Computer Technology Degree - Dual enrollment during High School*

Aug. 2016 – May 2019

*Reading, PA*

## EXPERIENCE

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### Jr. Systems Engineer Intern

*Rosenberger North America*

May 2019 – Aug. 2022

*Akron, PA*

- Deployed Manage Engine servers and services which improved SysAdmin automation by 80%
- Automated workflows to accurately maintain licenses of users which saved the company 30% on costs
- Administered vSphere environment across two sites and was an active member on the disaster recovery team
- Mediated VM and service downtime for all critical infrastructure failure during unexpected outages
- Maintained Active Directory and was a global admin on the companies federated government GCC O356 tenant

### Contracted Software Developer

*Expeditionary Interest Group*

Sep. 2018 – Dec. 2020

*Leesport, PA*

- Lead architect of patented Penny Helper software developed for nonprofit organizations
- Designed the project to mine Bitcoin and Ethereum on constituents idle computer time for their organization
- Developed the code to download, install, update the Penny Helper software
- Provided continual updates following the agile methodology increasing new releases turnaround time by 50%

## PROJECTS

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

Aug. 2022 – Present

- Actively maintaining an AR 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
- Enabled users to see generic information from NASA about each planet as education is a focal point of the project

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

Jan. 2022 – May 2022

- Led a team project investigating methods of parallelizing Dijkstra's and the Bellman-Ford algorithm
- Created the graph data structure, model data generator, unit tests, integration tests, performance metric tests, and the entire Dijkstra portion
- Steered the integration of the Bellman-Ford algorithm into the analysis execution

### E-Commerce - Nittany Market | *Python, Flask, SQLite, Blueprints*

Jan. 2022 – May 2022

- Built a mock E-Commerce site from scratch utilizing Python and Flask
- Provided the abilities for buyers to purchase products from sellers, sellers to publish products, and more
- 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
- Imitated an OS file system that could perform open, close, read, write, and seek operations on existing files or create and maintain new files
- 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:** Flask, OpenMP, Open MPI, ARKit, SceneKit, MapKit, UIKit

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

**Developer Tools:** Git, AWS, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Xcode

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