

David Rohweder

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EDUCATION

The Pennsylvania State University

Bachelor of Science in Computer Science, GPA: 3.50

University Park, PA

Aug. 2019 – May 2023

Reading Area Community College

Computer Technology Degree - Dual enrollment during HS

Reading, PA

Aug. 2016 – May 2019

EXPERIENCE

Jr. Systems Engineer Intern

Rosenberger North America

June 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 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

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, buyers to query results from categories search 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*

August 2021 – December 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

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

Operating Systems: Linux, MAC OS, iOS, Windows