

David Rohweder

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EDUCATION

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

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 copyrighted Penny Helper software for nonprofit organizations
- Optimized revenue by designing a solution to mine ETH and XMR utilizing constituents' idle computer time
- Improved release turnaround time by 40% through the implementation of agile methodology and regular updates

PROJECTS

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, PBS*

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
- Managed computationally large workloads on the PSU Roar Supercomputer, resulting in efficient data processing

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

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, macOS, iOS, Windows