Alaric Hartsock

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EDUCATION

Oregon State University | Corvallis, OR
Bachelor of Science in Computer Science, 3.72 GPA | *Sep. 2019 – June 2023*
- Secretary of the OSU Linux User Group
- Secretary of the OSU Hackathon Club
- Relevant Coursework: Cloud Application Development, Operating Systems I & II, Computer Architecture, Intro to AI, Intro to Security, Database Management Systems, Software Engineering I & II, Intro to Theory of Computation, Programming Language Fundamentals

EXPERIENCE

Tech Intern | June 2021 – Present
Pacific Northwest National Laboratory | *Corvallis, OR*
- ∗ Developed machine learning programs to visualize streaming cyber data for cyber analysts
- ∗ Generated critical visualizations to represent continuous cyber steaming data on demand
- ∗ Led an independent project to create novel applications of machine learning for visualizing cyber data
- ∗ Succeeded in diverse multidisciplinary teams working on highly technical projects

Project Consultant | July 2019 – Jun 2021
Oregon State University | *Bend, OR*
- ∗ Led a team developing multiple technical projects mission critical to a $6.0M grant disbursement project affecting over 1,600 applicants in multiple counties
- ∗ Taught other computer science students how to automate data integration with Python
- ∗ Led at least 10 client web development and systems projects
- ∗ Performed effective client communications to keep customers happy

PROJECTS

SmallSH | *C, Linux, Git* — Repository
- ∗ Developed a shell that used system calls to create new processes and execute commands
- ∗ Implemented error handling and dealt with edge cases

Custom Network Attached Storage | *Linux, System Administration, Networking* — December 2020 – Present
- ∗ Built a headless NAS server with spare hardware
- ∗ Implemented a RAID array with 8 TB of storage space
- ∗ User computer networking to hook the NAS up to my local network
- ∗ Wrote custom shell scripts to automate backups, organization, and pruning of old backup archives

Tarpaulin | *MongoDB, Mongoose, Node, Redis, Joi* — Repository
- ∗ Implemented a Canvas Clone with a 4 student team
- ∗ Employed MongoDB and Mongoose to model structured data
- ∗ Used Joi to verify input data

TECHNICAL SKILLS

Languages: Python, C/C++, HTML/CSS, LaTeX, R, Javascript
Databases: MongoDB, SQLite, MySQL, MariaDB
Developer Tools: Git, Github, Docker, VS Code, Vim
Libraries: Pytorch, Pandas, NumPy, Matplotlib, Plotly,