Jennifer Weir

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EDUCATION

University of Michigan | Ann Arbor, MI   May 2024
- Bachelor of Science in **Computer Science**, Minor in **Complex Systems**   **GPA: 3.67/4.0**
- **Relevant Coursework:** Operating Systems, Web Systems, Software Engineering, Computer Organization, Data Structures and Algorithms, Foundations of Computer Science, Discrete Math, Computer Vision

SKILLS

Platforms & Technologies: Kubernetes, OpenShift, ArgoCD, GitOps, Infrastructure as Code (IaC), Terraform, Git/GitHub, Tekton, Ansible, Kustomize, Bare Metal, Google Cloud (GCP), YAML, Bash, C++, Python, Go

EXPERIENCE

Ford Motor Company   July 2024 – Present
Kubernetes Platform Engineer   Dearborn, MI
- Streamlined cluster build processes and implemented automated provisioning of GCP infrastructure utilizing Terraform modules via an internally published configuration discovery and scaffolding tool
- Built 10+ OpenShift on GCP clusters and 10+ OpenShift on bare metal clusters in data centers and plant/edge environments, troubleshooting DNS, load balancing, networking, and hardware complexities as needed
- Enhanced on-premise OpenShift platform type none cluster build Tekton pipeline by adding support for type baremetal with ansible, coupled with creating pipeline tasks to validate DNS and network configurations
- Reduced platform technical debt by spearheading in-place bare metal server replacements of 30+ datacenter nodes across multiple production-level clusters with zero negative impact to active customer workloads
- Supported aggressive platform and operator releases adhering to N-1 versioning posture, code fixes to home-grown operators, ongoing CI/CD maintenance, and cluster health monitoring during on-call rotations
- Assisted customers with namespace migrations from legacy infrastructure to new GCP-backed systems

Instructional Aide @ University of Michigan   August 2023 – December 2023
SI 301 - Models of Social Information Processing (only offered during Fall Semester)   Ann Arbor, MI
- Lead regular office hours to help students with course materials through explanations and examples
- Assisted students while proctoring quizzes, answering questions on Slack, and grading homework/exams

Ford Motor Company   May 2023 – July 2023
Software Engineer Intern | Ford Pro Insure   Dearborn, MI
- Pioneered the development of an open-source proof of concept for automated testing, leveraging Selenium and Cucumber to implement behavior-driven development unit testing of SaaS Origami insurance platform
- Authored a whitepaper showcasing proof of concept, encouraging business partners to engage in software testing with Gherkin, leading to faster feedback loops and reduced time-to-market for the insurance product

Northrop Grumman   June 2022 – August 2022
Systems Test Engineer Intern | NASA Contractor   Palmdale, CA
- Developed an organizational calendar system in Excel using VBA macros to schedule maintenance and test events for the NASA Global Hawk team, increasing the 30 member team's scheduling efficiency and organization with potential for the tool to be acquired by other Northrop Grumman programs company-wide
- Refactored mission planning software systems by removing dead VBA code to optimize the UAV pilot experience, decreasing error and increasing satisfaction during autonomous vehicle route planning process
- Certified by Jet Propulsion Laboratory to solder electrical/electronic assemblies like circuit boards and wires

PROJECTS

HomeLab | My House | github.com/jennweir/HomeLab   August 2024 – Present
Open Course | VOID Tech @ University of Michigan | www.open-course.co   January 2023 – May 2024

INTERESTS

Running, Biking, Rock Climbing, Swimming, Hot Yoga, Flute, UM Football, Reading, Pop Culture, Tech News