BRIAN KUHN, B.S.

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San Jose, CA 95117

Willing to relocate to the Los Angeles area

SKILLS

Web Development:	Front-end frameworks (React/Redux), backend frameworks (express.js, python Flask), RESTful APIs, SQL and NoSQL databases
Programming Languages:	JavaScript/Typescript, Python, BASH, C/C++
Technologies/Software:	Docker, Kubernetes, Git/GitHub/GitLab, AWS, Networking (VLANs, DNS, VPN, Firewalls), Jira, Confluence
Technical Support:	Desktop/server/networking support, end-user assistance, hardware maintenance, server rack installations
Operating Systems:	Linux (Ubuntu/Debian, CentOS/RedHat, Arch), MacOS, Microsoft Windows (Desktop, Server)

WORK EXPERIENCE

ASRC Federal - NASA AMES Research Center March 2022 - Present
Site Reliability Engineer *Mountain View, CA*

· Work with team of site reliability engineers to provide 24/7 support to users of the Pleiades, Electra, and Aitken Supercomputers.
· Develop automation scripts and implement new monitoring systems to improve system reliability and coordinate with other technical teams.
· Maintain and write new documentation for internal procedures.
· Root access to the supercomputing systems.
· Actively monitor datacenter resources and respond to issues as-needed.

Infortech Corporation October 2021 - March 2022
Technical Services Associate *Santa Clara, CA*

· Work with team of technicians to provide desktop, server, and network support to client companies.
· Build, configure, deploy, and manage Windows servers for client and internal use.
· Create and disable client user email, Active Directory, and other software accounts as-needed.
· Actively monitor and manage client data backup systems.

Intevac Photonics September 2019 - October 2021
Junior FPGA Designer *Santa Clara, CA*

· Lead FPGA troubleshooting and debugging efforts and facilitate integration of product design with team managers.
· Coordinate with firmware, systems, and hardware teams to finalize projects and integrate final design.
· Write scripts to automate testing, tabulate errors, and calculate failure rate, as well as provide support to colleagues utilizing the scripts.

UC Davis - Risk and Safety Solutions October 2017 - September 2019
IT Services Assistant *Davis, CA*

· Coordinate with staff members to schedule times to asses hardware and software issues and contact customer support representatives if necessary.
· Develop custom PowerShell and BASH scripts to automate employee on- and off-boarding as well as streamline Microsoft Deployment Toolkit (MDT)/Jamf deployments to install software on new employee workstations.

WORK PROJECTS

NASA AMES Research Center:

I was responsible for leading my team on cleaning up several hundreds of terabytes of stale user data that was on our systems. This involved:

· Coordinating with several layers of management to determine scope of the project.
· Writing a highly detailed Standard Operating Procedure on how and when to perform the data cleanup.
· Collaborating with three Subject Matter Experts on the Systems Administration team to ratify the procedure.
· Instructing my team on how to do the procedure and develop special processes and tracking to efficiently and effectively process the backlog of stale user data.

I helped lead an effort on my team to organize our custom-written tools into version control and develop a more conducive development environment utilizing GitLab.

PERSONAL PROJECTS

Homelab:

My homelab consists of main server running Proxmox, a secondary backup server, a Windows Server for testing services used at work, a Raspberry Pi running Ansible scripts, and Ubiquiti networking equipment. On my Proxmox server, I have several virtual machines running:

· TrueNAS NAS storing personal media, backups, and my mother's videos for her business.
· Ubuntu server running various docker containers. Namely, PiHole for DNS, DuckDNS for dynamic DNS, Traefik as a reverse proxy with wildcard SSL certificates for local and external CNAME records, Grafana with InfluxDB for monitoring, VSCode Server to work on projects remotely, and Apache Guacamole for remote access.
· Ubuntu media server to host my mother's yoga videos for her business clients.
· Windows VM connected to my UPS running automated shutdown tasks.
· 10 CentOS VMs configured in a Kubernetes cluster to run future custom Docker containers on.

EDUCATION

University of California, Davis   *June 2019*
B.S. - Electrical Engineering (ABET accredited)