

Abhayraj Jain

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WORK EXPERIENCE

Software Infrastructure Developer – Christie Digital Systems Inc., Kitchener, ON

Sep 2022 – Present

- Provided infrastructure and DevOps support for 150+ engineers on an on-premise Linux cluster.
- Infrastructure-as-code and configuration management with Ansible and HashiCorp Nomad, Consul, and Vault.
- Saved \$80k annually by self-hosting services - GitLab, JFrog Artifactory, Portainer, Jenkins.
- Set up and managed CI/CD pipelines in GitLab and Jenkins. Created reusable templates to improve efficiency.
- Replaced local users with Active Directory-backed authentication with SSSD on Linux development servers.
- Created highly available home directory shares using Pacemaker, NFS, and Samba, achieving 99.9% uptime.
- Implemented alerting and monitoring using Zabbix and Grafana to lower outage response times by 30%.

Design Engineering Associate (Co-op) - Celestica Inc., Mississauga, ON

Sep 2019 – Dec 2020

- Part of the Value Engineering team in the Aerospace & Defense division.
- Supported cost-saving projects via redesigns & component replacements, saving \$500k in manufacturing costs.
- Developed Power BI dashboards for KPI tracking across 4 divisions to track project and pipeline status as well as revenue generated, reducing project management overhead by 20%.

Intermediate Security Analyst (Co-op) – BMO Financial Group, Toronto, ON

May – Aug 2019

- Conducted root cause analysis on 27 breaches in the SWIFT Messaging Network for the Payment Security Team.
- Recommended controls on factors of authentication for the Customer Identity & Access Management team.

EXTRACURRICULAR EXPERIENCE

Co-President – DeltaHacks V

Mar 2018 – Feb 2019

- Organized a hackathon for over 800 attendees, managing a team of 45 students to deliver a 2-day free-of-cost event.
- Implemented various strategic initiatives to double attendance and increased sponsorship funding by 60% YoY (\$80k).
- Architected a cloud-based webapp to facilitate attendee applications before the event, judging processes, meal distribution during the event, and project submissions.

HomeLab

May 2018 - Present

- Linux cluster with XCP-ng VM host, storage server, and 8 Linux compute nodes; OPNsense router; TrueNAS VM.
- Local home automation with HomeAssistant for quality-of-life features like monitoring garage door status, temperature and humidity across all rooms, presence-based light control, logging internet connection stability.
- Traefik reverse proxy for webapps; Zabbix for metric collection; Immich for locally-hosted photo backup.

TOOLSET

Linux Fundamentals and Scripting; CI/CD pipeline development with GitLab CI; Virtualization with Xen Orchestra, XCP-ng; Containerization – Docker, Podman; Version control with git, svn; Reverse proxy – Traefik, nginx; Container orchestration – Nomad; Service mesh – Consul; Secrets Management - Vault, Thycotic; Software development – Python

EDUCATION

McMaster University – B.Eng. Mechatronics Engineering, Minor in Business

Engineering Capstone Project – TerraSense ([Video](#))

Winner of Best PCB Design; Data-driven approach to improve efficiency and agricultural yield; Remotely monitor modular Zigbee environmental sensors over the internet using HomeAssistant