

Abhayraj Jain

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E Education

McMASTER UNIVERSITY *grad. 2022*

B.Eng. Mechatronics w/ Co-op

Minor in Business

P Projects

HomeLab

- Linux cluster with primary compute server, storage server, and 4 compute nodes
- opnSense firewall and router
- Local home automation (HomeAssistant)
- Kubernetes orchestrator
- Local git server (gitea)
- Traefik reverse proxy
- Cloudflare Zero Trust for internet-facing application interfaces
- Experimented with various FOSS tools with a goal of being fully open-source
- Game server instances (Minecraft, Satisfactory, etc.)

TerraSense [\(Video\)](#)

- Engineering Capstone project
- Winner of Best PCB Design
- Remotely monitor modular wireless environmental packs
- Agricultural and environmental applications

S Skills

- Linux Fundamentals and Scripting
- CI/CD pipeline development
- Containerization and virtualization
- Infrastructure-as-code with Ansible
- Version control with git
- Network Management with Traefik
- Container orchestration with Nomad
- Service mesh with Consul
- Secret storage with Vault

W Work Experience

Software Infrastructure Developer – Christie Digital Systems Inc.

Sep 2022 – Present

- Remotely administrated an on-premise Linux cluster in a team of 2
- Developed and maintained internal software build tools for developers
- Implemented Infrastructure-as-Code with git and Ansible
- Set up and debugged CI/CD pipelines in GitLab and Jenkins, both supported by Hashicorp Nomad and Vault for orchestration and service discovery
- Improved existing infrastructure security by adding better secrets management with Hashicorp Vault and reducing attack surfaces
- Provided technical support to 50+ internal customers
- Prototyped software defined storage options including SeaweedFS & DRBD
- Creating a pipeline to build Linux distro images for servers and workstations
- Implementing user identity and authentication with SSSD against AD servers

Strategic Communications Assistant - McMaster University

Sep 2020 – Apr 2022

- Executed multimedia productions including photo, video, and graphics using the Adobe Creative Suite (PhotoShop, InDesign, and Illustrator)

Design Engineering Associate (Co-op) - Celestica Inc.

Sep 2019 – Dec 2020

- Value Engineering team in the Aerospace & Defense division
- Supported cost-saving projects via redesigns and component replacements
- Developed Power BI dashboards for tracking project KPIs across 4 divisions

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

May – Aug 2019

- Collected information and recommended controls on factors of authentication for the Customer Identity & Access Management team
- Investigated, conducted root cause analysis, and reported on 27 breaches in the SWIFT Payment System for the Payment Security team

X Extracurricular Experience

Co-President – DeltaHacks V

Mar 2018 – Feb 2019

- Organized McMaster University's 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 increase attendance by 100%, raising \$80k of funding and signing long-term strategic partners
- Architected an in-house attendee management system to facilitate attendee applications, project submissions, judging processes, and meal distribution via a webapp