Danial Changez

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EDUCATION

Bachelor of Computer Engineering (Co-op) September 2022 – December 2027
University of Guelph, Guelph, ON

- Relevant Courses: Digital Systems Design, Computer Organization & Design, Embedded Reconfigurable Computing, Signal Processing, Data Structures

TECHNICAL SKILLS

Hardware & HDL: VHDL, Computer Architecture (MIPS), Vivado, iCEcube
Languages: C, C#, Java, Bash, PowerShell, JavaScript, SQL, Python
Tools & EDA: Git, GitHub (CI/CD, Releases, Protected Branches, CODEOWNERS, Apps)
Automation & Systems: WPF/XAML, MSI Packaging, Selenium, PsExec, Power Automate

WORK EXPERIENCE

Technical Support Analyst Intern Jan 2025 – Aug 2025
The Co-operators — Technical Platform Support, End-User Services

- **[DONUT] (PowerShell/WPF)** — parallelized Dell Command Update with live per-device status and unified logs; increased update throughput by **3–4x** and cut analyst touch time by **70%**; adopted by **30+** analysts.
- Standardized **CI/CD** and releases (semver, MSI, protected branches, CODEOWNERS, PR templates, GitHub Apps); reduced release prep from 1 hr to **<10 min** (**80%** faster) and eliminated plaintext token storage via **DPAPI**.
- **[Dell BIOS Search]** — automated per-model BIOS discovery and silent deployment via headless **Selenium** + **PsExec**; removed manual lookups, closed DCU's **60-day** lag, and improved BIOS compliance by **40%**.
- **[Auto-PowerCycle]** — event-driven remediation keyed to Windows Kernel-Power and Dell TechHub logs; reduced recurring display-wake incidents at Calgary HQ by **65%** and MTTR by **40%**.
- Drove adoption with live demos; authored user/maintainer docs (architecture, concurrency, troubleshooting) and mentored **5** co-ops (2 closely), cutting onboarding time by **60%**.

PROJECTS

16-Bit MIPS CPU | *VHDL* Mar 2024

- Co-designed a 16-bit MIPS CPU using R,I, and J instructions in hierarchical VHDL with scalable datapath and control.
- Simulated 50+ cycles in Vivado and improved trace accuracy by 20%.

PDF-ICS Semester Schedule | *Bash* Nov 2024

- Automated conversion of 10+ schedule PDFs to ICS with poppler-utils and regex, saving 2–3 hours per schedule and enabling direct Google Calendar import.

File Processing System | *Java, JSON* Mar 2023

- Built a Java system to parse, sort, and store 1,000+ records with client-server communication; improved response time.

HOBBIES

Homelab April 2025 – Present

- Self-hosted lab on Proxmox: TrueNAS (SMB shares, snapshots, backups), Docker stacks via Portainer, automated Plex (NZB), Dashy portal, and remote access with WireGuard.