Ali Umar

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EDUCATION

BS. Computer Science   Toronto, Ontario
Honours Bachelor of Science, York University   *August 2025*

Diploma. Computer Engineering Technology   Toronto, Ontario
Advanced Ontario Diploma, Seneca College   *August 2021*

EXPERIENCE

Software Developer / Senior Programmer Analyst   Sep 2023 – Present
Ministry of Children, Youth & Social Services   *Toronto, Ontario*
- Currently leading migration effort of Jira, GitLab, Jenkins & Nexus Repository to Microsoft Azure DevOps Platform
- Responsible for driving **DevOps** initiatives, managing **Infrastructure**, implementing **Integration and Automation** processes, developing **Internal Tooling**, and leading **Release Management** efforts
- Designed and implemented CI/CD pipelines from DEV to PROD for 2 Java services and and 1 Angular web application using Jenkins automation tool
- Configuration, maintenance and troubleshooting of 24 RedHat (RHEL) OPC servers for various application environments
- Preparation of technical requirements for system integration across multiple departments
- Preparation of system diagrams and documentation for privacy and risk compliance, cyber security penetration testing and performance and capacity testing
- Full stack Software Development with a mix of modern Java Springboot RESTful APIs and a legacy CMS system utilizing Java Swing, Oracle Weblogic Java EE on Java 8

Software Developer Co-op   May 2022 – Aug 2023
Ministry of Children, Youth & Social Services   *Toronto, Ontario*
- IAM integration with Angular SPA Web Application, Jenkins CI setup / integration for application builds and deployments. Automated application versioning and tagging following build once and deploy everywhere model
- Created SQL script using Oracle PL/SQL proprietary scripting language for legacy Java CMS system (JDK 1.8)
- Setup Prometheus and Grafana observability tooling for demo/PoC

Software Developer Co-op   Jan 2020 – Aug 2020
Ministry of Government & Consumer Services   *Toronto, Ontario*
- Software development of a server monitoring Dashboard for the Ministry of Health using Angular Framework

PROJECTS

Compiler - Bminor language | *C-language, LLVM tools*   September 2024
- Completed compiler pipeline created following traditional compiler design
- Including scanning, parsing, ast generation, semantic analysis, code generation for assembler target

Homelab - Dell PowerEdge R730 | *Proxmox, Ubuntu Server*   September 2023 - Present
- On premise machine to run various applications, services and agents
- Configuration managed via Ansible and I like to run a mixture of LXCs, VMs and the occasional docker container
- Dell PowerEdge R730 / x4 1TB HDD / 128GB RAM / x2 E5-2640 V3 2.60GHz

TECHNICAL SKILLS

Fundamentals: General application programming patterns, software design patterns, system architecture, networking concepts, automation tools, observability & telemetry tools, version control, databases, message queues, caches, data structures & algorithms, foundational math, project management, leadership and communication skills, initiative
Tools: C, C++, Java, JavaScript, TypeScript, Node, Python, C#, Lua, Go, Git, Shell, SQL, Jenkins, Github Actions, Ansible, Docker, GNU Make, Vagrant, Angular, Java Springboot
Familiarity with: caching systems, cdns, firewalls, load balancers, web servers, proxies / relays, data / event bus, databases

CERTIFICATIONS

AZ-900: Microsoft Azure Fundamentals   Issued on June 2021