Ali Umar

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EDUCATION

BS. Computer Science — Toronto, Ontario
Honours Bachelor of Science, York University — *Sep. 2021 – April 2025*

Diploma. Computer Engineering Technology — Toronto, Ontario
Advanced Ontario Diploma, Seneca College — *Sep. 2018 – Aug 2021*

EXPERIENCE

Senior Programmer Analyst — Sep 2023 – Present
Ministry of Children, Youth & Social Services — *Toronto, Ontario*
- Configuration, maintenance and troubleshooting of 24 RedHat OPC servers for various application environments
- Full stack software development using Angular Framework, Java Spring-boot Framework. Active in peer reviews, mentoring juniors, learning from colleagues and furthering my domain knowledge in the health technology sector
- Cross-team Collaboration with external vendors, communication with internal teams such as DBAs, IT Operational teams, Release Management
- Preparation of technical requirements for system integration with cross-functional teams
- Setup Prometheus, Grafana tooling for monitoring on a cluster of 9 machines for demo/PoC

Software Developer Co-op — May 2022 – Aug 2023
Ministry of Children, Youth & Social Services — *Toronto, Ontario*
- Integrated authentication for an Angular SPA (Single Page Application) with Oracle IAM provider
- Setup Jenkins CI jobs for application builds & deployments. Automated versioning, automated Git tagging, separation of build jobs & deployment jobs, Following a build once and deploy everywhere model
- Created and maintained configuration/installation documentation for a 3-tier infrastructure architectural pattern on RedHat VMs consisting of a presentation VM, reverse proxy VM and an application VM
- Configured Apache/httpd web server as reverse proxy and in addition to serving up static web content
- Created SQL script using oracles PL/SQL proprietary scripting language to add a new form into a data driven legacy Java CMS system

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

TECHNICAL SKILLS

- Foundational knowledge: general programming concepts, data structures, relational database design, common programming patterns, networking concepts, basic system design
- Familiar with C, C++, Python, JavaScript/TypeScript, Java, C#, Groovy, Lua, Go , Shell / Bash
- Familiar with Angular, React, Express, .NET, Flask, Spring boot
- Familiar with Linux operating system, code version control systems, application build systems (Maven, npm), infrastructure observability systems (ELK, Prom / Grafana), Networking tools (wireshark, netcat, traceroute, nslookup, nmap, dig)
- Knowledge of infrastructure level components such as load balancers, caches, firewalls, web servers, data / event bus, databases
- Familiar with ITIL Framework / ITSM processes

CERTIFICATIONS

- AZ-900: Microsoft Azure Fundamentals

PROJECTS

Particle engine	Desktop Application / C-language / Raylib Graphics library
Audio Visualizer	Web application / JavaScript / Browser Canvas API
Shroom.io	Web application / JavaScript / Go Lang / Pocketbase / Websockets
Mushroom Bot	Discord Bot / Node / Typescript / SQLite