ANDA SU

andasu.ca | anda.su@uwaterloo.ca | linkedin.com/in/andasu | github.com/Apsd1109

SKILLS

Languages: Java, JavaScript, C, C++, Python, C#
Frameworks/Tools: Spring, Angular, React, Django, MySQL, PostgreSQL, Linux, Bash, Docker, Jenkins, Git
Other: Amazon Web Services, Alexa Skill Kit, Adobe XD, Azure Cloud Services, Google Cloud Platform

WORK EXPERIENCE

Software Dev Engineer Intern — **Amazon Web Services (AWS)** — Seattle, WA   **Jan 2023 – Present**
- Enhanced scaling and financial decisions by making DynamoDB metrics readily available through creating a dashboard framework made with **React** and **Python**
- Automated the deployment of a serverless, multi-factor authenticated dashboard application on AWS

Software Developer Intern — **Ultimate Kronos Group (UKG)** — Toronto, ON   **Jan 2022 – Aug 2022**
- Improved website usability by reducing API payloads, which **decreased wait times** by more than **95%**
- Enhanced team workflows and processes by increasing transparency and reducing maintenance costs through developing a tracker application in **Java** and **JavaScript** using **Spring** and **Angular**
- Modernized API security by implementing user authentication and authorization using **Spring Security**
- Ensured customer satisfaction by performing root cause analysis and suggesting bug fixes for time-sensitive escalation cases in a thorough and prompt manner

Innovation Developer Intern — **Sun Life Financial** — Toronto, ON   **May 2021 – Aug 2021**
- **Reduced operational costs by 30%** through designing and implementing guided tours using **React**
- Enhanced client security by implementing **multifactor authentication** (MFA) on **Alexa voice**
- Increased visibility of application statistics by automating Tableau reports using **Python** and **Jenkins**
- Modernized UI/UX flows by designing a digital statement form using **Adobe XD** and **React**

Junior Architect Intern — **Sun Life Financial** — Toronto, ON   **Sep 2020 – Dec 2020**
- Streamlined project and technology governance processes to increase transparency and efficiency by analyzing the needs of multiple stakeholder groups, creating documentation and training teams
- Reorganized application and architecture records by coordinating with architects to **meet audit requirements**, standardize data entries for easier collaboration, and **drive future project investments**

Junior Developer Intern — **Stealth Monitoring** — Toronto, ON   **Jan 2020 – Apr 2020**
- Enhanced diagnostics capabilities by automating the collection of ONVIF-compliant device data
- Migrated an application from **.NET Framework** to **.NET Core** to achieve cross-platform compatibility

PROJECTS

Real-Time Operating System
- Developed a real-time operating system in **C** to manage memory, schedule real-time tasks, communicate between tasks, and handle user interrupt events for a Keil microcontroller board

Multithreaded Web Crawler & Image Processor
- Developed a multithreaded web crawler in **C** to retrieve and reconstruct PNG images concurrently

uMigrate — github.com/Team-uMigrate/umigrate
Cloud-Ops Team
- Accelerated development and operations workflow with automated testing pipelines and continuous deployment to multiple environments within **Azure DevOps (CI/CD)**
- Led automated **PostgreSQL** database backup efforts using **Azure File Services** to enable flexible deployment strategies and to increase data security
- Developed **bash** scripts to automate server administrative tasks and enhance server security

EDUCATION

Candidate for BASc in Computer Engineering — University of Waterloo   **Sep 2019 – Apr 2024**
Relevant Courses: Distributed Systems, Cooperative & Adaptive Algorithms, Algorithms & Data Structures, Systems Programming & Concurrency, Real-Time Operating Systems, Database Systems, Computer Networks

AWARDS

Lieutenant Governor's Community Volunteer Award for Students
Canada 150 Community Volunteer Award - Scarborough-Agincourt