Andres Caicedo

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With over 5 years of experience in the tech sector, I have honed my skills in increasing reliability, performance, and availability by using agile methodologies, implementing automation frameworks, building and maintaining CI/CD pipelines, and deploying new features on application builds. All while maintaining comprehensive security and coding standards.

WORK EXPERIENCE

Unity Technologies • Calgary, Alberta 03/2022 - Present

Software Developer Engineer

- Collaborated on the development of a new Full Stack Automation framework using Swagger UI and PostgreSQL, enhancing testing efficiency by 40% across all Unity-built application platforms within 12 months.
- Supported the development of automated test scripts, resulting in a 30% reduction in manual testing efforts for different releases, and improving overall testing efficiency within 12 months.
- Streamlined testing activities by adhering to Agile sprint goals, and managing projects in Jira, resulting in a 25% increase in efficiency in 18 months.
- Contributed to the continuous production infrastructure by implementing new features, enhancing scalability by 30%, and improving maintainability and reliability within 9 months.
- Utilized tools such as Postman for Web Services and API testing, Jenkins, and GitHub Actions for CI/CD pipelines, and various automation frameworks, increasing test coverage of projects by 30% within 6 months to ensure comprehensive validation and reliability.

University of Calgary • Calgary, Alberta 07/2019 - 04/2022

Computer Support Technician

- Resolved over 100 technical issues per month, achieving 95%+ customer satisfaction consistently over 12 months, leading to increased productivity and an improved user experience.
- Addressed reported system issues and bugs within 24 hours, proposing alternative solutions when needed, and ensuring continuous application availability and functionality over a 12-month period, contributing to a 95% user satisfaction rate.
- Utilized hardware management by identifying, documenting, and tracking software and hardware in Microsoft SQL Servers, ensuring a seamless user experience for clients.
- Implemented Linux security best practices, resulting in a reduction in system vulnerabilities and strengthening information security posture.

Human Performance Laboratories • Calgary, Alberta 09/2015 - 05/2018

Biomechanics Researcher

- Contributed to the implementation of research methodologies to collect reliable data for various research papers, resulting in publications. Ensured data reliability by adhering to best standards and providing clear instructions to subjects as needed, improving data accuracy by 25% within a 12-month period.
- Improved research planning and execution by making recommendations that boosted efficiency, resulting in streamlined processes and optimizations that increased productivity by 30% within a 6-month period.
- Developed tools in C++, Java, and MATLAB to analyze muscle fiber force depression, contributing to research published in the Journal of Biomechanics and improving data analysis efficiency by 40% within a 12-month period.

EDUCATION

Bachelor's degree in Software Engineering

University of Calgary • Calgary, Alberta • GPA: 3.81 **09/2019 - 01/2023**

Graduated with Distinction

Bachelor of Science (BSc) in Biomechanics

University of Calgary • Calgary, Alberta • GPA: 3.59 **09/2010 - 12/2014**

Minor in Mechanical Engineering

PROJECTS

Adaptive Bandwidth Throttling in Radio Access Networks

Collaborated with TELUS Communications to create a Python-based full-stack application tackling Radio Access Network congestion through an adaptive throttling algorithm and a cellular tower simulation. This solution, which dynamically managed network bandwidth by user tiers and congestion levels, enhanced user experience significantly. The project's success led to recognition from TELUS executives and coverage in a University of Calgary publication.

Professional Website

Developed my personal professional website using the React framework Next.JS and Framer Motion, alongside various JavaScript libraries. The purpose of this project was to highlight my career and tell a more complete story of myself to potential employers, showcasing my skills and professional journey in an engaging and interactive manner.

Go Baby Go

Led a team of 3–5 developers to create functionality for modified toy cars that provide mobility to children with disabilities. We used C/C++ and Python to develop and sync the hardware and software, enabling young children to gain independence and enjoy the benefits of active mobility.

PUBLICATIONS

Adaptive Bandwidth Throttling in Radio Access Networks **09/2023**

University of Calgary

Effects of Fiber type on Force Depression Post Active Shortening in Skeletal Muscle **05/2015**

Journal of Biomechanics

SKILLS

- Active Directory
- C#
- C/C++
- Computer Networking
- Cypress
- Data Analysis
- Docker
- Github Actions
- Java
- Javascript
- Jenkins
- Jira
- Junit
- Kubernetes
- Linux
- MATLAB
- MongoDB
- .Net
- Object-Oriented Programming (OOP)
- Perforce
- Playwright
- PL/SQL
- PosgreSQL
- Postman
- Project Planning
- Pytest
- Python
- Quality Assurance
- REST
- Rust
- Selenium
- SQL
- Test Automation
- Testrail
- Unity