Andres Caicedo

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With over 5 years of experience as a Software Engineer and Computer Specialist, I have honed my skills in increasing reliability and performance by implementing automation frameworks, improving production infrastructure by implementing and maintaining a CI/CD pipeline, reducing database query time, and deploying new features on application builds. All while maintaining comprehensive security processes and guaranteeing that our products adhere to the most recent security requirements.

EDUCATION

Bachelor of Science in Software Engineering

University of Calgary   **Calgary, Alberta | Sep 2019 - Jan 2023**

Bachelor of Science in Biomechanics

University of Calgary   **Calgary, Alberta | Sep 2010 - Dec 2014**

Minor in Mechanical Engineering

WORK EXPERIENCE

Software Developer Engineer

Unity Technologies   **Calgary, Alberta | Mar 2022 - Present**

- Collaborated on the development of a new Full Stack Automation framework using Swagger UI and PostgreSQL for all application platforms built in Unity within a year.

- Contributed to the continuous production infrastructure, implementing new features in production, and enhancing the scalability, maintainability, and reliability.

- Contributed to the improvement of production infrastructure, ensuring adherence to security policies and standards, resulting in enhanced system reliability and data protection.

- Implemented PostgreSQL database indexing, leading to a reduction in overall database query execution time, and enhancing system performance and scalability.

- Collaborated with multi-disciplinary teams to reduce system errors and improve the overall performance of application features.

Computer Support Technician

University of Calgary   **Calgary, Alberta | Jul 2019 - Apr 2022**

- Optimized system functioning, resolving 95% of identified faults and errors, resulting in a more efficient user experience and operational workflow.

- 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.

Biomechanics Researcher
Human Performance Laboratories   **Calgary, Alberta | Sep 2015 - May 2018**

- Improved research planning and execution, making recommendations that boosted efficiency. Resulting in streamlined processes and optimizations.
- Programmed statistical tools in C++, Java, and MATLAB to analyze muscle fiber force depression, aiding in research that was published in the Journal of Biomechanics.

VOLUNTEERING & LEADERSHIP

Project 90   **Calgary, Alberta | Apr 2019 - Nov 2022**
Lead Software Developer

Work in the Go Baby Go project to help design prototypes and test toy ride-on cars for children with disabilities in Calgary.

Competitive programming club   **Calgary, Alberta | 2019 - Aug 2022**
Competitor (C/C++, C# and Python)

Participate in weekly competitions with problems focused on memory management, speed, logical thinking, and complex algorithms.

PUBLICATIONS

Adaptive Bandwidth Throttling in Radio Access Networks   **Sep 2023**
University of Calgary

Effects of fiber type on force depression after active shortening in skeletal muscle   **May 2015**
Journal of Biomechanics

SKILLS

- Active Directory
- Application Development
- C#
- C++
- Computer Networking
- C (Programming Language)
- Customer Support
- Data Analysis
- Data Entry
- Engineering
- Game Development
- Hyper-V
- Java
- Javascript
- Linux
- Management Information Systems
- Microsoft Office
- Object-Oriented Programming (OOP)
- Oracle
- PL/SQL
- PosgreSQL
- Process Analysis
- Project Planning
- Python (Programming Language)
- Quality Assurance
- Representational State Transfer (REST)
- Rust
- Software Quality Assurance
- SQL
- Systems Analysis
- Systems Implementations
- Teamwork
- Technical Analysis
- Technical Support
- Test Automation
- Unity