

KILEY CARSON

(403) 875-9817 | crawford.carson134@gmail.com | [LinkedIn](#) | [GitHub](#) | Calgary, AB

EDUCATION

University of Calgary, Calgary, AB

May 2022

Degree: Bachelor of Science (Hons) in Computer Science with a Concentration in Information Security, and a Minor in Management and Society (Business)

GPA: 3.5/4.0

Relevant Coursework: Data Structures, Algorithms and Analysis (A); Computer Security (A+); Software ENG (A)

TECH SKILLS

Programming: Java, Python, SQL, HTML, CSS, React, ASP.NET

Software Development: Design Patterns, Writing Unit Tests and Optimizing Performance in Application

Data Engineering: Relational Databases Architecture, Algorithms, Data Structures, Cloud Applications.

Data Analytics: Mathematics and Statistical Analysis

OS & Other Tools: Windows, iOS, Linux, Unix, API Gateway, API Security, API Developer Portal

WORK EXPERIENCE

ATB Financial, Calgary, AB

May 2021 - Present

Full Stack Developer

- Developed software solutions and created a demo API developer portal using Drupal to make it compatible with Apigee and other software products
- Created an API programming interface that forms the base of apps dealing with data and launched API tests using Node.js to ensure there are bugs or errors
- Integrated API developer portal using SASS to accelerate software development production timeline by 5%
- Launched new APIs and deleted 30% of legacy non-prod proxies & associated apps, and prepared for a migration to test the functionality of 4 API products & apps using Apigee
- Designed a demo of a front-end application using React to test API functionality and achieved a great customer satisfaction rate

Advanced Skills: Software Development, API, React, Node.js, Drupal, JavaScript, HTML, CSS, Apigee, GCP

GEOSLOPE International Ltd, Calgary, AB

May 2019 - Aug 2019

Student Programmer

- Developed website functionality using C#, ASP.Net, CSS, and JavaScript to launch updates and new features
- Integrated multiple systems together using APIs and 3rd party frameworks, and 3-party applications
- Researched C++ and NUnit Testing Framework to determine usability in the software testing strategy
- Designed and created interactive dashboards using Power BI and Dynamics 365 to perform data analysis and support efforts of the financial management department

Advanced Skills: Software Development, JavaScript, C++, C#, ASP.Net, CSS, API, Power BI, Dynamics 365

PROJECTS

Reservation System (*Skills: Java, CSS, JavaFx*)

- Developed a reservation system interface using Java and JavaFX to allow users to complete reservations
- Added password functionality to provide a secure and user-friendly environment

Honours Research Project: A Security Enhancement to the FIDO2 Protocol (*Skills: React, CSS, Security, Research*)

- Researched FIDO2 protocol, its cryptographic building blocks (subprotocols CTAP2 and WebAuthn), and its security model and proof in order to design a modified protocol that is more secure than both passwordless authentication, and password-authentication with a multifactor component
- Designed and developed a simulation of the security enhancement to the CTAP2 FIDO2 Protocol to demonstrate both the concept and usability

AIM Random Number Generator (*Skills: React, CSS, Algorithm Design*)

- Designed an 'aim-trainer game' web application that uses a Linear Congruential algorithmic to generates randomness from a users mouse movements

- Created a front-end fully using react.js that allows users to click targets before they disappear while following proper iterative development practices

LEADERSHIP EXPERIENCE

Google Developer Group (GDG) Calgary Cloud, Calgary, AB

Jun 2018 - Present

Co-organized, Community Platforms

- Spearheaded the initiative as the Women Techmakers' Ambassador promoting Diversity and Inclusion projects to support and empower women in technical industries
- Organized and executed events for 300 attendees by collaborating with Calgary's Google enthusiasts, non-profit organizations, students and professionals in the tech space to learn and share the information
- Drafted and distributed event announcements to 1000+ members

University of Calgary Developer Student Club, Calgary, AB

Jun 2019 - Oct 2020

Founder, Lead

- Selected by Google to be in the first cohort of 25 clubs in Canada to cultivate new campus programs, events, and initiatives
- Led initiatives of the club and supervised the affairs of the executive council to build partnerships with the Student Union and University organizations
- Facilitated relations with faculty members and university organizations to plan and execute 5 events for 75+ attendees each providing students with transferable knowledge to use in academic and business endeavours
- Registered the organization with the Student Union and documented procedures to assist a successful transition of leadership

VOLUNTEER EXPERIENCE

Student Union Wellness Center, Calgary, AB

Sep 2017 - Sep 2019

Peer Support Volunteer

- Awarded the "Peer Helper of the Year" for exceptional dedication to building a supportive campus community
- Advocated for positive mental well-being to strengthen the campus community and provide support for University of Calgary students
- Organized the process of onboarding for students entering the Center and demonstrated the use of materials and tools for recreational activities
- Promoted interest in activities and responded to requests to engage in activities with students and develop strong peer relationships

ACHIEVEMENTS & AWARDS

Recognitions for Academic Achievements: Lockhart Family Scholarship for Computer Science, Tuition Reinvestment Bursary, Jason Lang Scholarship, Alexander Rutherford Scholarship, Dean's List '18-'19, Dean's List '20-'21

Diversity, Equity, and Inclusion Awards: Computer Science Award for impact on diversity, demonstrated leadership, and academic background (Women Techmakers Scholars Program)