

Gregory Desrosiers

Software Engineer

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gregpdessch.github.io

SKILLS

Java, Spring, Python, HTML, jQuery, CSS, Angular, Play, Ruby, C++, C#, Unity, UE4

EDUCATION

University of Waterloo

Bachelor of Software Engineering (BSE)

Waterloo, Ontario

Sep 2014 – May 2019

PROFESSIONAL EXPERIENCE

NielsenIQ

Software Developer

Markham, Ontario

Mar 2020 – Present

- Transformed components of the data reporting API into Docker containers, improving scalability and efficiency, using Docker, Java, Spring Boot, JUnit, and Microsoft Azure
- Standardized logging of a data reporting API, decreasing response time, using Java, Spring Boot, Graylog, and Google API
- Planned the migration process of 1400 queries from Sybase to PostgreSQL in a data reporting tool, reducing data storage costs by 85%, using C++, Spring Boot, and the Microsoft Foundation Class Library
- Computerized over 250 end-to-end tests of a product statistics web app, reducing functionality testing duration in each sprint to four hours, using Python, Selenium, and behavior-driven development
- Modernized the data reporting tool with crash reports and Auth0 authentication, streamlining debugging practices and minimizing security vulnerabilities, using C++ and Spring Boot
- Resolved 20 high-severity security vulnerabilities in a data report application, limiting the risk of SQL injection and cross-site scripting attacks, using Angular and Java

Kii Mobile Technologies, Inc.

Software Developer [Co-op]

Toronto, Ontario

Aug 2018 – Dec 2018

- Implemented the identity access and management console of an email parser coupled with Salesforce Lightning, enabling management of 100 Salesforce users and application coupled Dialogflow agents with consistent permissions, using Angular, Spring, and MongoDB
- Constructed email parser functionality in a four-person team to extract and select Salesforce accounts, contacts, and tasks, using Java, Spring, Dialogflow, and the Google Knowledge Graph API, deployed using Amazon Web Services

IBM Canada, Ltd.

Unity AR HoloLens Developer [Co-op]

Markham, Ontario

Jan 2018 – Apr 2018

- Integrated Microsoft HoloLens Spectator View into a Universal Windows Platform app to enable engineer collaborations in the mixed reality environment with component interactions, using Unity and C#
- Developed prototypes of a room design app for a furniture retailer, allowing real-time room previews, with OpenCV and C++

University of Waterloo

Web Application Developer [Co-op]

Waterloo, Ontario

May 2017 – Aug 2017

- Automated the import process of student transcripts using Play, Java, Scala, MariaDB, jQuery, and a JSON student grading parser, to present audits of 500 Software Engineering students and aid in course planning and admission
- Spent 30+ hours reviewing assignments in a three-person team to a C++ programming course, adding education value

Public Works and Government Services Canada

Web Developer [Co-op]

Toronto, Ontario

Sep 2016 – Dec 2016

- Formatted 50 sections of the *Public Accounts of Canada* website in a seven-person team to present the 2015-2016 government expenses, delivering results to the Parliament of Canada with W3C accessibility standards met, using HTML and an in-house language
- Revised and updated instructions to formatting accounting sections in the team, eliminating ambiguities and improving orientation by 35%

The Weather Network (Pelmorex Corp.)

Oakville, Ontario

QA Developer [Co-op]

Jan 2016 – Apr 2016

- Conducted biweekly website regression testing in a five-person team, maintaining 45 million monthly views and ensuring consistent UX and delivery
- Performed frontend bug reproduction testing on PC and mobile, increasing development efficiency and ensuring on-time delivery, using over 150 Atlassian JIRA tickets with daily scrums

Conrad School of Entrepreneurship and Business

Waterloo, Ontario

Research Assistant Developer [Co-op]

May 2015 – Aug 2015

- Added new UI elements to a LEGO store web application for the Managing Technological Innovation course using Backbone.js, Bootstrap, and Django
- Programmed front-end unit tests for a web-based entrepreneurial platform, reducing testing time by 70%, using Selenium WebDriver and Java

PROJECTS

ToronHot Dog: Designed a website to perform location search and pathfinding to Toronto's hot dog stands using Google Maps, Ruby on Rails, PostgreSQL, jQuery, and Bootstrap

DespyNumPyramidGenerator: Experimented with Python functions to print out character sequences as filled triangles, including the Fibonacci sequence

DETERGO: Idealized an app to aid with estimating how much laundry detergent to use for washing clothes, using Ruby, Swift, and Java (Android)

WATOSCENG: Conceptualized a road generation project for the WATonomous student team to provide test scenarios on feedback control, path planning, and perception of team's self-driving Chevrolet Bolt, using Unreal Engine 4, Blender, and C++

MLH Tic-Hac-Noe: Created a 6x6 tic-tac-toe game, achieving Daily 4th place on Newgrounds in Nov 2016, using Unity and C#

VOLUNTEERING EXPERIENCE

LinkedIn

Remote (Montreal, Quebec / Markham, Ontario)

LinkedIn Learning Student Ambassador

Oct 2019 – Apr 2020

- Placed in the top 5% of 900+ participants across North America for marketing LinkedIn Learning to post-secondary students
- Contributed towards driving 10% increase in engagement for the consortium of 44 public colleges and universities in Ontario with the LinkedIn Learning contract offered by the Government of Ontario
- Established a learning journey and personal brand by completing 20 LinkedIn Learning courses, posting about the content with completion certificates, and sharing some career-level insights

WE Movement

Toronto, Ontario

WE Day Toronto - Mascot Wrangler

Sep 2018

- Entertained over 2,000 people out of the 18,000 attendees with the help of a mascot, ensuring safety and guided navigation
- Snapped over 50 photos of 1,000 attendees for memories of their enthusiastic experience at the show

University of Waterloo

Toronto, Ontario

Ontario Universities' Fair - Software Engineering Ambassador

Sep 2015

- Inspired over 60,000 students on the different programs offered at UWaterloo in an event of 120,000, including admission processes and structure of the Software Engineering program
- Guided 50 students and families, based on info required, to the right people in eight different Q & A tiers, improving efficiency of information delivery by 60%

Ark Paradigm, Inc.

Kitchener, Ontario

Web Developer

Jun 2015 – Jul 2015

- Created frontend interface for a financial audit automation website using HTML, CSS, and jQuery

LEARNING CERTIFICATIONS

Become a Python Developer, Become an Azure Developer, Diversity, Inclusion, and Belonging for All

Issued by LinkedIn Learning