Ryan Baker

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EDUCATION

Carleton University | September 2017 - June 2021 | Ottawa, ON
- Bachelor of Computer Science Honours
- Computer and Internet Security Stream
- Minor in business
- Major GPA 9.23 / Overall GPA 8.65

WORK EXPERIENCE

Support Technician (Full Time) | Shared Services Canada | October 2021 - Present | Ottawa, ON
○ Developed application which allowed transfers of files to a secure server where they would be further processed

TypeScript, Angular, Java, Spring Boot, HTML, CSS, Bootstrap, XML
- Files would be grouped into a transaction, and xml metadata generated for each transaction
- Transactions are discarded and cleaned up after a certain period of time specifiable in a configuration file
- Interacted with the client about requirements for the application
  - Created demos for the client
  - Implemented feedback and suggestions from the client

Support Technician (Casual) | Shared Services Canada | June 2021 - October 2021 | Ottawa, ON
○ Worked with colleagues on the development of an application which allowed secure transfer of files to be done overnight

C#, .NET, WPF
- Coded and tested various features, ensuring great user experience
- Efficient usage of memory due to the large amount of files
- Application was multithreaded to enable processing of more than one file at a time
- Interacted with the client about requirements for application
  - Created demos for the client
  - Refined application requirements with the client
  - Implemented extra features
  - Defined extra software required for application and communicated to correct personnel

FSEWP Student | Shared Services Canada | July 2019 - April 2021 | Ottawa, ON
○ Created a PowerShell script which formatted SharePoint reports to be printed
○ Worked in a secure environment using smart cards to get access to different environments
○ Designed a web application which is used to securely import and export files to a server

TypeScript, Angular, Python, Django, PostgreSQL, NiFi, Maven, HTML, CSS, Bootstrap
- Implemented resumable uploads
- Designed usable interface using Bootstrap
- Implemented the ability to handle different workflows

PROJECTS

Honours Project | themeetingscheduler.com | January 2021 - April 2021 | Ottawa, ON
○ A calendar application which allows an event organizer to find the best time for their event which maximizes attendance to the event

TypeScript, Angular, Javascript, NodeJS, SQLite3, Chai, HTML, CSS, Bootstrap, Tomcat
- Designed database schema used to store user data and event data

- Received feedback from professor about the application and iterated on the design
  - Created demos to display to professor
  - Implemented feedback and ideas of professor into next iteration of application
- Designed algorithm which takes users calendars and finds the maximum attendance
  - Uses sliding window technique
  - Uses the interval tree data structure
- Hosted the completed application to be accessible via any browser
- Created tested for the custom algorithm
  - Tested basic functionality
  - Tested time complexity
  - Tested edge cases

School Project | Password Manager | March 2021 - April 2021 | Ottawa, ON

○ A password manager where a user can enter username and password along with other information to be encrypted and stored on their computer

Python, Tkinter

- Created a user interface which allows users to create and manage password entries
- Encrypted the information before saving the file to disk
- Added functionality when adding a entry, where a secure password can be automatically generated for the user
- Collaborated with other team members to meet projected deadlines set by project members

School Project | Course Management System | December 2020 | Ottawa, ON

○ A web application which allows university administrators, professors, and students to manage school related activities

TypeScript, Angular, Javascript, NodeJS, SQLite3, Protractor Cucumber, HTML, CSS, Bootstrap

- Designed database schema used to store user data and event data
- Received feedback from professor about the application and iterated on the design
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School Project | Pirates | October 2020 | Ottawa, ON

○ A command line game where multiple players play a game of pirates. Dice are rolled and cards are drawn to determine a players score

Java, Cucumber, JUnit

- Followed Test Drive Development (TDD) to thoroughly test applications functionality
- Many different tests were written to ensure correctness of score and multiplayer functionality

SKILLS

− LANGUAGES

English	French
Native	Conversational

− RELATED EXPERIENCE

Service Cashier/Supervisor | Farmboy | October 2016 - June 2019 | Ottawa, ON

− COMPUTER SKILLS

Programming Languages		
JavaScript	TypeScript	Java
C#	C	C++
Python	Racket	Scheme
PowerShell		

Full Stack Development		
Angular	Spring Boot	MongoDB
HTML	NodeJS	PostgreSQL
CSS	Django	SQLite
Bootstrap	Express.js	
JSON		
XML		

Operating Systems		
Windows 7/8/10/11	Linux Ubuntu/Xubuntu	RHEL

Miscellaneous		
.NET	WPF	Selenium
Chai	Cucumber	JUnit
Tkinter	Git	NiFi

HOBBIES

Biking with friends and family	Working on cars