**Khachig Kerbabian**

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**Personal statement:**

For many years now I have been solving problems using computer programming! I am a natural problem solver and puzzle aficionado which, combined with my Bachelor of Science degree in Mathematics for the Aleppo University of Syria, has equipped me with the skills required to excel at using a wide variety of algorithms, programming languages, development libraries & frameworks, and technologies to applying them to solve an equally wide variety of problems.

More recently my formal education in Conestoga’s Computer Programmer Analyst (CPA) Advanced Diploma program, has helped me round out my software development and engineering skills as I continue on this journey towards being a Professional Developer.

During education time of mathematics, I self-thought myself with so many different kinds of developing software’s and languages. Learned networking, windows application, back end front end development, mobile, graphics designs, game development, Linux commands, raspberry pi and Arduino circuit board to build my own server at home for variety of reasons.

Self-thought how to Visualize algorithms with veracity of ways, using animations, sounds, and different languages and software’s. Such as machine learning, neural networks, genetic algorithms, BFS, DFS queue data structure, A\* path finding.

Ability to study documentation of libraries and modify them to create my own OOP class.

Self-started, self-motivated.

I am an independent, self-starter and I would love to dive in to help you and your organization solve some problems.

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| **Summary of Qualifications** |

* 3 years’ experience in customer serving as sales floor associate.
* 3 years’ experience in automation robotics customer services call, to fix and reprogram adds on parts and new machines. (Service online through Ethernet connection ).
* Supportive team worker; committed and responsible
* Self-motivated and well organized individual
* Excellent reputation with customers as a competent, knowledgeable and helpful professional
* Aptitude for working with numbers, equations, functions, structure class, interfaces, type nicely and clean
* Successful in generating new business, and new ideas
* Proven ability to motivate others
* Excellent at Teamwork, fast and reliable
* Excellent at communication skills, respectful to self and others
* Good skills at planning before start coding
* Able to prioritize workload and meet deadlines
* Highly effective in analyzing work flow and communication patterns to maximize effectiveness of the work team
* Successful in negotiating and winning cooperation and support of staff
* Able to manage all aspects of a complex project
* Strength in creative problem solving
* Outstanding ability to work with community and professional groups
* Excellent telephone communication skills
* Effective teacher and innovative designer of learning projects

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| Soft Skills | Specialized Skills | Technologies | Certifications |
| * Teamwork * Communication Skills * Leadership * Planning * Troubleshooting * Problem solving * Self-start * Time management * Ability to learn * Work under pressure * Research skills * Trilingual * Organizational skills * Supervisory skill * Interpersonal skill * Decision making | * Agile Software Development * Project management * Quality Assurance * Analytical Skills * User Interface Design * Software Development Life Cycle(SDLC) * Business System Analysis * Scrum * Data Analysis * Test Driven Development * Secure coding * Front/Back end development | * Java * SQL – noSQL * Cloud Computing * GIT * Javascript * Python * Microsoft Azure * HTML * Linux * C# * ASP.NET Core MVC web app * Oracle * NodeJS * XML-JSON * AngularJS * AI * C++ * Mongo DB * Big data * Android * Unity * Unreal engine | * C# Development * Android * SQL Database management * NLP |

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| **Education & Certifications** |

**Computer Programming and Analysis** Conestoga College, Waterloo, ON **2019-present**

*Program Highlights*:

Programming Mobile applications(cross platform, and android studio), Java Web Technologies, MSQL, noSQL, MongoDB, Software Quality, Networking, Small business solutions, Game development (Unity, MonoGames C#), System Analysis and design, HTML Javascript, Microsoft Web Technology, business Intelligence(Big Data), WCF application development (Distributed apps), Microsoft Enterprise application(C# .NET web application).

**Bachelor’s Degree in Mathematics** University of Aleppo – Syria **2011**-**2016**

*Program Highlights:*

Analytical applied functions such as mechanical engineering problems solving,

Apply C, C++ languages to solve most kinds of problems, functions, and equations,

Number theory, Imaginary numbers theory, Statistics, and economical functions.

**Certification of C#** : **SQLite database: Android Mobile Application Development**

New Horizon -- Aleppo – Syria 2015

*Program Highlights:*

Building complete Microsoft Windows form application integrated with SQL database communication. Examples of apps: Pharmacist store App to store data in warehouse and retrieve it, and Uber Taxi management system.

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| **Digital Tech Projects** |

50 hours, Conestoga College – Team Assignment (ASP.Net Core MVC- Online Video Game store)

* Scheduled weekly team meetings and developed project plan
* Inception Phase Deliverables
* Iteration Phase Deliverables - Agile Project Management
* Iteration Phase Deliverables - Analysis
* Analysis use case diagram, activity diagram, use case descriptions, system sequence diagram
* Design level class, level sequence, system sequence, navigation entity relationship diagram
* Report design
* Agile development planning
* Project planning chart
* Data dictionary with field-level definition or Glossary
* Unit test plan and results
* Divide coding into section for each team member according to plan
* Some Futures of the website: search bar, wish list, games list, game potion details, full gam details, reviews, user are customers or Admin as main user(owner), cart, add edit delete wish list or shopping cart items, register an account, events, register for upcoming event, reports(game list, game detail, member list, member details, wish list, sales, others), payment method, credit card check, and download game.

46 hours, Conestoga Collee – Individual Assignment (ASP.NET Core MVC web application)

* Generate views from a controller action making use of request and/or application model data.
* Basics of Controllers & Razor Views
* Generate models from an existing database (or generate a database from existing models) and annotate using metadata classes applied to partial classes.
* Validate and edit user data using annotations and self-validating models.
* Store and retrieve records in a relational database using Entity Framework and LINQ.
* Access variables passed to a controller and use them to filter and control data displayed to the user.
* Use Tag Helpers in a view's HTML elements to speed view development, improve adaptability and integrate with the data flow from the controller.
* Secure access to parts of a web app using user names, roles, controller annotations and view code.

35 hours, Conestoga Collee – Group Assignment (Android Studio)

* Implementing deferent types of activities.
* Implementing SQLite database.
* Login, settings, statistics activities.
* Getting data from internet.
* Uploading to internet cloud.
* Timers, animations, system services, notifications.
* Vibration, sounds, flash light.
* Fragments and Views.
* FireBase RealTimeDatabase, push Notifications, etc..

40 hours, Conestoga Collee – Individual Assignment (WCF Distributed apps)

* Building application on many computers, services on one and the app on other computer.
* Communication in-between service and SQL database.
* Windows forms application.
* Creating API documentation (Swagger)
* SpringBoot Application.

42 hours, Conestoga Collee – Individual Assignment (Game programming)

* Working with MonoGames library and visual studio environment.
* Build from scratch all kinds of levels and animation.
* Sounds, collision detections, key input events.
* Unity.
* OOP for game characters and level deign. (inherited classes, override, new methods)

Self study and developing games on Unity and unreal engine.

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| **Self-thought skills** |

* Taking Linda and Coursera online courses in many variety fields of study.
* EDX.org/ learn offers so many courses which I learned so much from it
* FDS vs. FBS.
* A\* path finding algorithm
* Dijkstra traveling salesman algorithm
* Insertion /Heap / Selection /Merge /Quick /Counting/ Bucket/ Bubble Sorts.
* Fibonacci heap / Binary Indexed Tree
* Genetics Algorithm
* Neural networks (feedforward/ backpropagation ) Multilayer Perceptron.
* Convolutional Neural Network
* LSTM – Long Short-Term Memory.
* Supervised, unsupervised, and reinforcement learning.

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| **Related Experience** |

**Hatch Canada, Toronto –** Part Time **Sept 2017 – Dec 2017**

* Taught Java programming languages using processing graphics software

to children aged 12-14

* Increased student engagement through class group activities, interesting algorithmic based visualizations.
* Spoke with disruptive student privately, discussing potential consequences
* Presented Hatch Canada organization to schools stuff, parents meetings and faculty
* Teach a programming language in different schools, as assigned.
* Teach the students how to code in a fun and engaging way.

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| **Additional Experience** |

**2D Electronics and Automations, Saint George Aug 2017- Dec 2019**

* Follow engineering drawings to machine required parts with given dimensions

Using Mill, Lath, power tools.

* Follow drawings to wire the cabinet (with good understanding of electrical theory)
* Very good skills in assembly.
* Good knowledge of Solid-works, AutoCad, and Fusion360 Software and how to use it**.**
* Good with communicating with coworkers.
* Good customer service call. “make sure customer is satisfied”
* Responsible for the warehouse, for shipping and receiving products.
* Responsible to keep the area clean and tidy.

**Starbucks, Toronto –** Part Time  **Sept 2017**

* Prepare and serve drinks and sandwiches according to customers preferences
* Upsold new products to repeat customers
* Accept payments and operate cash register
* Communicated with customers

**Tim Hortons, Burlington Jan 2017- Aug 2017**

* Trained new employees on safe and efficient operation of drink preparation machines
* Prepared and served drinks
* Communicated with customers
* Accepted payments and operated cash register

**Nookz, Burlington –** VolunteerSale Associate **Jan 2017- June 2017**

* Greeted customers at the door and assisted with purchases
* Answered customer questions and advised shoppers about the offers for mattresses beds, and furniture

**Walmart INC. Waterloo / Canada / ON –** Sales Floor Associate **Nov 2020 – Oct 2022**

* Customers assistance associate (Sales Floor)

**Math Tutor, On / Canada –** Self Employed **2017 - 2020**

* Tutored students with their studies in Mathematics, physics, and computer science
* Worked as side job, advertise myself online for people to find me.
* Visiting their home and help students with their school work.
* Grades 12-10-9-8

**References available upon request**