

# Pasindu Gunasekara

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## Highlight of Qualifications

- Enrolled in Level IV of McMaster University's Computer Science co-op program graduating April 2019.
- Experienced in web development with ASP.NET, React, Angular, and Vue.js through personal projects and work experience.

## Education

**Honours Computer Science Level IV:** McMaster University, Hamilton ON

Graduating April 2019

- Bachelor of Applied Science; coursework in algorithms and data structures, database design, concurrent systems, requirements engineering, Agile methodology, web design, linear optimization, information security, operating systems, and compilers.
- **Achieved Dean's Honour List:** Fall 2014, Winter 2015, Fall 2015, and Winter 2016.
- **Cumulative GPA:** 3.7/4
- Vice President of Technology for the McMaster Computer Science Society during Fall 2015, and Winter 2016.

## Work Experience

**Software Engineer Co-op:** AMD (Advanced Micro Devices), Toronto, ON

May 1, 2017 – August 31, 2018

- Maintain existing workstation and gaming graphics features such as Framelock, AMD Relive, and Virtual Reality.
- Design, implement, and document new kernel mode features through modification of graphics DDIs in C++ and work with teams across the company to perform cross component changes.
- Resolve complex issue tickets within tight time constraints for driver releases using WinDbg and Visual Studio debugging tools on kernel mode and user mode graphics drivers.
- Support device drivers for vendor specific workstation platforms while closely coordinating with clients to ensure timely bug fixes.
- Achieved first place in the annual AMD memory dump analysis challenge with a score over 90% and was nominated for the intern of the year award.

**Software Engineer Co-op:** ArcelorMittal Dofasco, Hamilton ON

May 2, 2016 – August 22, 2016

- Implement bug fixes and change requests to order processing applications using Java and Oracle PL\SQL.
- Add new functionality to corporate communications ASP.NET web application using C# and PL\SQL.
- Automate Windows desktop applications using C++, and the Windows Automation API.
- Work directly with clients to gather requirements and design prototypes. Create formal software requirements documentation, design documentation, and testing plans.

## Projects

**GLIFRP:** Spark web framework (Java), React, SQLite, Amazon Web Services

2016

- Web application for finding houses within the U.S. based on current location, crime rates, consumer price index, and average housing prices within various cities. Collaborated within a team of 5 and achieved a grade of 96%.
- Created formal software design, requirements, and testing documents.
- Deployed final product to Amazon web services and presented a live demo to the class.
- Implements various graphing algorithms to analyze datasets and provide users with ideal locations to live.

**Spending Tracker:** C# (ASP.NET), HTML/CSS, JavaScript (jQuery, AngularJS), Transact-SQL

2016

- Web Application written in ASP.NET for tracking and visualizing spending habits over a given period.
- Provides spending graphs, and suggestions for future spending based on analyzed patterns.
- Stores data within a SQL Server Database, and uses stored procedures to retrieve and analyze data.

**3D Modeling Application:** C++, OpenGL, GLUT

2016

- 3D modelling application built within in group of 4 on OpenGL and C++, achieving a final score of 96%.
- Implements a scene graph data structure to add 3D objects and transformations, and various advanced OpenGL features such as mouse picking with ray-casting, lighting, particle systems, and, texture mapping.
- Gained strong understanding of ray-casting, efficient memory management, and file I/O with C++.

## Skills

Programming: C, C++, C#, Dart, Java, Python, JavaScript, SQL, PL\SQL, Bash

Web Frameworks: ASP.NET Core, Spark Web, Spring, Node.js, Angular, Vue.js, React

Database Management Systems: Oracle Database 11g, MySQL, Microsoft SQL Server

Other: Android Studio, Visual Studio 2017, Eclipse, Oracle SQL Developer, Flutter, Perforce, Git, Make