

Kurt Dorflinger

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Education

Bachelor of Science, Computer Science
University of Victoria, fourth year student.

Expected December 2019
Victoria, BC

Work Experience

Microsoft Corporation Software Engineer Intern

May 2019 – August 2019

- Designed feature for Windows Settings App, engineered in modern C++/WinRT

Microsoft Corporation Software Engineer Intern

June 2018 – August 2018

- Developed configuration management tool for new features being added to Microsoft Accounts
- Designed and programmed all aspects of the tool, from UI to the backend functionality
- Learned and utilized WPF and Prism to create app with Model-View-ViewModel paradigm
- Designed backend functionality around background workers to ensure UI never froze

Relic Entertainment Associate Programmer

January 2018 – April 2018

- Developed core feature to gameplay experience on Age of Empires IV in C++

ACD Systems International Inc. Software Developer

May 2016 – September 2017

- Developed several features for photo management and editing app written in C++ using MFC
- Improved performance of brushing with threading in C++
- Upgraded Flickr plugin login flow to support OAuth

Projects

**Golang, gRPC,
Docker, Protocol
Buffers, SQL**

Day Trading Distributed System

- Implemented a mock day trading distributed system
- Wrote microservices containerized with Docker written in Golang that communicate using Protocol Buffers via gRPC

C++ SDL, OpenGL

Amorphous Game Clone

- Flash game recreation in C++, developed using OpenGL, SDL and modern C++ standard library features
- Implemented Sprite resource management, threaded Sprite loading and batching

C#, Unity3D

Commander of Sagittarius

- Game being created with C# and Unity3D
- Developed algorithm for creating random distributions of stars while maintaining game balance

Python

Acquire game AI for Windward CodeWars

- AI algorithm created in 8 hours during a hackathon to play the board game Acquire
- Placed second internationally in the competition

Technical Skills

Proficient: C/C++, C#, Python, Golang, Docker, Git, Java

Familiar: Docker, gRPC, Protocol Buffers, SQL, Java, HTML, CSS