

# Matthew Carter

Computer Scientist

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## EDUCATION

### BS in Computer Science Western Washington University

09/2017 – Present

GPA: 3.43

#### Courses

- Deep Learning
- Analysis of Algorithms
- Operating System Internals
- Database Systems

### AS-T in Computer Science Clark College

09/2015 – 06/2017

## WORK EXPERIENCE

### Software Development Engineer Intern Micro Focus

06/2019 – 09/2019

Bellingham, WA

#### Achievements/Tasks

- Designed and developed an internal web app to increase team productivity and efficiency
- Implemented the web app with the VueJS framework
- Created automatic install scripts to install different products and product versions
- Used GitLab CI/CD to install the latest product versions on virtual machines
- Used Docker for creating images and containers with different installed product versions
- Implemented Rest APIs for communication between the web app and various services

### IT Systems Admin Intern Christenson Electric

06/2016 – 09/2018

Portland, OR

#### Achievements/Tasks

- Designed forms for a web-based platform to improve technician efficiency
- Setup and deployed various work stations, iPads, and other equipment
- Managed the IT infrastructure throughout the office

## SKILLS

Problem Solving

Collaboration

Communication

C

Java

Python

HTML

CSS

JavaScript

Linux

Git

CI/CD

Docker

Data Structures

## PROJECTS

### StarCraft: Brood War AI (09/2019 – Present)

- With a team of 4 other CS undergraduates, we're working on developing an AI/ML system that can interact with and play the video game StarCraft. The system should be able to handle build orders, troop management, and other in-game tactics. Another part of the project will be simulating human strategy, movements, and overall game play.

### Mini Operating System Kernel (09/2019 – 12/2019)

- The Mini OS kernel for my Operating Systems Internals course is a quarter long project where we develop a fully functioning "mini" kernel for the Blitz system. The kernel has all necessary features such as resource management, a small file system, and user level process execution.

### Adversarial Machine Learning Research (01/2018 – 03/2020)

- Research with Dr. Michael Tsikerdekis for fake content detection and the effects of adversarial attacks. The research includes the compilation of various fake content detection techniques that apply machine learning and the analysis of adversarial attacks on these techniques. The result will be a paper titled "Approaches for Fake Content Detection: Strengths and Weaknesses to Adversarial Attacks".

### Stock Market Analyzer (04/2019 – 06/2019)

- An application capable of analyzing 22.4 million stock market data points, processing trading intervals, calculating ticker returns, and compiling returns for entire industries.

### Deadwood Studios USA (05/2018 – 06/2018)

- Designed a Java game based on the real board game Deadwood Studios USA for my OOP course. Developed the back end system and game rules then designed a GUI that mimicked the real game board for users to play on.

### macarter.net (07/2018 – Present) [🔗](#)

- A website that was designed to be a portfolio while learning the basics of HTML and CSS using Bootstrap.