# Matthew Lee

American-Canadian studying CS @ WWU
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## Education:

Currently at Western Washington University.
Graduation Date (expected): Fall 2020
GPA: 3.52

## Member of:

University Honors Program
Computer Science Honors Program

## CS Coursework:

Algorithm Analysis · Object-Oriented Programming · Computer Systems · Databases · Formal Languages and Functional Programming · Automata and Formal Language Theory

## Skills:

**Familiar Languages**: Java, C#, C

**Some Experience**: Powershell, C++, SQL, CUDA, OpenCL

**Productivity and Tools:**

WPF, AWS DynamoDB, Maven, Docker, Linux, GDB, VM Virtualbox, Git

## Notable Personal Projects:

### GW2 Unofficial Add-On Manager

Wrote and currently maintain a .NET C# WPF desktop application with over 1500 downloads for Guild Wars 2 that improves player experience by condensing installation, configuration, and updates for popular add-ons into a single user-friendly process. Created a self-updater to seamlessly install new versions of the application, performed bug fixes and implemented features based on user feedback, and collaborated with other developers in the game's community.

### Classfindr

Over several months, designed and wrote a multithreaded web scraper and upload application to obtain 16 years of course information from my university and store it based on user input. The program parses responses from a web API in place for a legacy tool and either uploads the results to a personal NoSQL AWS DynamoDB database or saves them to an embedded SQL database using the H2 DB engine.

### Financial API Utility - University Hackathon

Wrote a console-based application that retrieves data from a restful API to display to the user. Learned how to parse JSON files using the org.json and Gson libraries over the course of the 24-hour competition and gained collaborative development experience.

## Research:

Working with Dr. Filip Jagodzinski on research into PDZ binding domains by performing computational analysis of the molecular structure of unmutated and mutated proteins.