

Michael Aspinwall

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Education

Aug 2018– **Carnegie Mellon University**,
Present *Bachelor of Computer Science*, School of Computer Science, GPA - 3.09.

Relevant Coursework

Computer Science(Theory).

Math Foundations of Computer Science (Proofs, Mainly Math)
Great Theoretical Ideas in CS (Mathematics applied to Computer Science)

Computer Science(Programming).

Principles of Functional Programming (SML)
Principles of Imperative Programming (C)
Artificial Intelligence: Representation and Problem Solving (Python)
Introduction to Computer Systems (C)
Parallel and Sequential Data Structures (SML)

Miscellaneous.

Robotics and Humanity (Thought Provoking Ethics Course on AI)

Work Experience

Sept 2017– **AP Calculus and Physics Tutor**, FREELANCE.

Jun 2018 ○ Parents noticed increase in grades and generally saw good results from tutoring.

Jun 2017– **Trail Builder**, MORE.

Jun 2018 ○ Built trails for hiking/ mountain biking in Maryland for hikers and mountain bikers.
○ Learned various methods to prevent erosion and found a new appreciation for nature while working with a team towards a common goal

Projects

Capital One **QR Enabled ATM**.

SES ○ Winning hackathon project consisting of a group of 5 students from various schools
○ Developed a Python and Java app so users could create transactions before going to the ATM
○ Implemented the backend using firebase to store and update transactions in real time

Hack112 **LeapMotion Base Defense**.

○ For a hackathon a team of 3 people and I built a game involving LeapMotion, a hand tracking device
○ Rotating the players would rotate a shield in game that defended the center base from incoming projectiles

Term Project **GPS Trail Difficulty Utility**.

○ Created a general utility that would use GPX file data for mountain bike rides and hikes.
○ Utility would find general loops of trails and rank loops depending on difficulty, based upon steepness.
○ Coded in python using backend sqlite for user data and semi permanent trail logs

Skills

Languages Python, C, Elixir, Ruby, SML
Frameworks AngularJS, Ruby on Rails, Phoenix
FrontEnd HTML/CSS, JavaScript
Databases PostgreSQL, SQLite3, Neo4j

Personal Details

Language English, Russian
Hobbies Mountain Biking, Hiking, Video Games