

# Matthew Chu

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## Education

**Carnegie Mellon University**, Pittsburgh, PA

Bachelor of Science in Electrical and Computer Engineering, May 2018

GPA: 3.5/4; Relevant coursework:

- Introduction to Electrical and Computer Engineering
- Fundamentals of Programming and Computer Science
- Structure and Design of Digital Systems
- Principles of Imperative Computation

## Skills

**Computer Languages:** Python

**Hardware Languages:** SystemVerilog

**Software:** MS suite, Quartus II, DVE

**Operating systems:** Linux, Unix, Windows

## Projects

### Collisions

- Created a multi-level strategy game using Python and the pygame module set.
- Implemented collision detection, an efficient graphics display, and a basic enemy AI.
- Learned basic principles of GUI's and OOP.

## Honors

- NCAA All-American
- Local 464a scholarship award winner
- National AP scholar
- National Merit Scholar semifinalist
- All County first team (swimming)

## Volunteer and Community Activities

### Carnegie Mellon University Volunteer

- Fundraising activities for the CMU swim team

### YMCA volunteer

- Fundraising and assistant coaching for the Somerset Valley YMCA

### Camp New Day Counselor

- Counselor for a sleep away camp for developmentally disabled adults

## Extracurricular Activities

### Carnegie Mellon Men's Varsity Swimming

- Member of the 2015 UAA conference team
- School record holder in the 100 Breaststroke, as well as the 200 medley relay and 400 medley relay.

### Somerset Valley YMCA (SVY) Swimming

- Team captain senior year
- Nationally ranked YMCA swimmer, multiple top 16 finishes at the YMCA national meets.
- Contributed to many state titles and 2<sup>nd</sup> and 3<sup>rd</sup> place finishes at the national level.