

# Matthew Salim

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[github.com/msalim](https://github.com/msalim)

## Education

### Carnegie Mellon University

B.S. Computer Science, May 2019  
GPA: 3.90

B.S. Psychology, May 2018  
University Honors

## Skills

### Programming Languages

Python, C, x86 Assembly  
C#, PowerShell  
JavaScript, HTML, CSS

### Platforms and Frameworks

Web: React, Redux, Less  
Windows: UWP, HoloLens  
Tools: git, Bash, GDB, Simics  
OS: UNIX-based, Windows, Inferno

## Coursework

15-410 Operating Systems  
15-412 OS Practicum  
15-210 Parallel Algorithms  
10-601 Intro to Machine Learning  
85-358 Prosocial Behavior  
79-318 Sustained Social Change

## Social Work

### You're Awesome Campaign

#### [youreawesome.org](http://youreawesome.org)

- Post, chalk, draw, and fence-paint encouraging messages
- Start movement in encouraging others to practice gratitude

### End-of-Semester Food Drives

- Organized 4 first-year drives collecting 1,500+ lbs. of food

## Work Experience

### Software Engineer Intern Microsoft

May 2018 – Present

Creating support solutions to resolve AD FS issues more effectively on PowerShell and C#

- Designed security measures to mitigate file upload attacks

### Software Engineer Intern Applied Predictive Technologies

May 2017 – Aug 2017

Created full-stack solution to setup and modify web dashboards

- Developed a highly-customizable webpage in JavaScript with React, Redux, and Immutable.js frameworks
- Created data saving, modification, and deletion infrastructure conforming with existing data model in C# and SQL
- Implemented globalization, data verification, and unit testing

Applied collaborative task management techniques

- Engaged in code reviews and incorporated review feedback
- Sub-tasked for, and adhered to, an Agile framework

### Volunteer Engineer RoboTutor, LLC | [robotutor.org](http://robotutor.org)

Feb 2016 – Present

*A Global Learning XPRIZE Finalist*

Created data source generation pipelines based on given data

- Built one-click Python scripts to convert various specifications and sources into RoboTutor's standardized JSON format
- Delivered 2-day product turnaround time to allow testing and improvements prior to submission deadline

### 15-213 Teaching Assistant CMU Computer Science Department

May 2016 – Dec 2017

Assisted 1,500+ students in total for 15-213: Computer Systems

- Developed coursework and plagiarism detection heuristics

## Tech Projects

### CMUEval TartanHacks 2017 | [cmueval.com](http://cmueval.com)

Feb 2017 – Present

*Won 'Best Data Visualization' and 'Most Innovative' Awards*

- Presented useful statistics from raw course evaluation data, enabling students to effectively plan their semester schedule
- Working with the University Registrar to publish CMUEval for general availability to all CMU students and faculty members