Matthew Salim

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matthewsalim.com | github.com/msalim

Education

Carnegie Mellon University
B.S. Computer Science, May 2019
GPA: 3.90

B.S. Psychology, May 2018
with 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
85-358 Prosocial Behavior
79-318 Sustained Social Change
15-411 Compiler Design*
*Planned for Fall 2018

Social Work

You're Awesome Campaign
youreawesome.org

- Post, chalk, draw, picket-sign, and fence-paint kindness
- 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 **May 2018 – Present**
Microsoft | Live: adfshelp.microsoft.com/diagnosticsAnalyzer

Developed and deployed to production an end-to-end solution to resolve AD FS issues more effectively

- Developed and delivered feature from scratch to production with thorough unit testing and readily-extensible codebase
- Designed security measures to mitigate file upload attacks
- Created and managed product development timeline; communicated timeline changes as they occur

Software Engineer Intern **May 2017 – Aug 2017**
Applied Predictive Technologies

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

Volunteer Engineer **Feb 2016 – Present**
RoboTutor, LLC | robotutor.org
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 **May 2016 – Dec 2017**
CMU Computer Science Department

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

- Developed coursework and plagiarism detection heuristics

Selected Tech Project

CMUEval **Feb 2017 – Present**
TartanHacks 2017
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