

Robert Maratos

rmaratos@andrew.cmu.edu

[rmaratos.github.io](https://github.com/rmaratos)

617.584.1583

EDUCATION

Carnegie Mellon University, Pittsburgh, PA
B.S. Electrical and Computer Engineering
M.S. Electrical and Computer Engineering
Class of 2017
GPA: 3.79

Current Relevant Coursework:

15-619 — Cloud Computing
15-744 — Computer Networks
08-781 — Mobile and IoT Computing Services

Past Relevant Coursework:

15-640 — Distributed Systems
18-545 — Advanced Digital Design Capstone
18-845 — Internet Services
18-631 — Introduction to Information Security
18-859 — Wireless Networks and Mobile Computing
18-487 — Introduction to Computer & Network Security & Applied Cryptography
18-341 — Logic Design and Verification
18-348 — Embedded Systems Engineering

PROGRAMMING

Python, Go, Erlang, Javascript, C,
SystemVerilog, Assembly

HONORS

Dean's List (F13, S14, S16, F16)
Build18 2015 Faculty Choice Award
Andrew Carnegie Society Scholar
TartanHacks 2014 Bloomberg Award
15-112 Fall 2013 Term Project Finalist

ACTIVITIES

Activities Board Technical Committee (AB Tech)
Professional grade entertainment production

Head of Tech

- Direct executive board and oversee an organization of about 30 students
- Lead recruitment and training of new members
- Work with dozens of student organizations, administration, and outside contractors to put on hundreds of events every school year
- Manage allocation of revenue toward technical equipment to meet the growing needs of CMU

The Kiltie Band

The Band Without Pants...a tradition since 1908
Former Vice President for Public Relations
• Updated website and put it on version control

EXPERIENCE

WhatsApp (Facebook)

Summer 2017 — Mountain View, CA
Software Engineer, WhatsApp Web

Google

Summer 2016 — Mountain View, CA
Software Engineer Intern, Search Ads Site Reliability

- Started work on a refootprinting automation project to reduce the manual toil of server capacity planning
- Implemented a data collector server to fetch data from multiple Google services via Remote Procedure Calls
- Ensured correctness through full unit test coverage and integration testing with other Google services

WhatsApp (Facebook)

Summer 2015 — Mountain View, CA
Software Engineer Intern, WhatsApp Web

- Rewrote deployment system to be more efficient and to allow granular beta releases of new versions
- Added client side load time metrics collection
- Enabled WhatsApp Web to utilize Application Cache, greatly impacting page load speed for users

PDT Partners, LLC - A Global Quantitative Investment Manager

Summer 2014 — New York City, NY

Summer Technology Analyst

- Created a website used for internal account management
- Extended infrastructure tools for ingesting real time metric data into a distributed database and later visualizing it

CMU, School of Computer Science

Fundamentals of Programming and Computer Science

Spring and Fall 2014 — Pittsburgh, PA

Course Assistant

- Led a weekly recitation of 25 students teaching python

PROJECTS

FPGA on the Web! (Build18 Project)

- Created a web UI to interact with a Field Programmable Gate Array using modern protocols such as WebSockets
- Implemented multiprocess web server to serve as a low latency intermediate between clients and hardware

we-fi (MHacks Project)

- A crowd-sourced heat-map that indicates the wifi signal strength of your surrounding area, targeted for colleges
- Spearheaded backend development with Django
- Presented directly to the Governor of Michigan

dineXchange (TartanHacks Project)

- Online marketplace for exchanging extra meal plan funds
- Implemented backend with Flask, Google integrations
- Oversaw git management and deployment to Heroku