

Michael A. Gazzola

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EDUCATION

CARNEGIE MELLON UNIVERSITY

BS in Computer Science
Grad. May 2015 | Pittsburgh, PA
Minor in Mathematical Sciences
School of Computer Science
Cum. GPA: 3.20 / 4.0

LINKS

Github:// [michaelagazzola](#)
LinkedIn:// [michaelagazzola](#)
Quora:// [Michael-A-Gazzola](#)

COURSEWORK

iOS Development
Operating Systems
Web Application Development
Great Theoretical Ideas in Comp. Sci.
Algorithm Design and Analysis
"Science of the Web"
Computer Graphics
Functional Programming
Real Analysis
Complex Analysis
Formal Logic

SKILLS

PROGRAMMING

Over 5000 lines:
Java • Python • C • \LaTeX • Swift •
C++ • Objective-C
Over 1000 lines:
x86 Assembly • HTML/CSS •
Javascript • SML • Haskell
Familiar:
Maple • Mathematica • OpenGL •
Django • VimL

EXPERIENCE

GOOGLE | Software Engineer

August 2015 - present | New York, NY

- Worked on **Google Contributor**, a project which enables users to see fewer ads online and fund the people who create the websites that users use and enjoy. This is a full stack project.

GOOGLE | Software Engineering Intern

May 2014 - Aug 2014 | New York, NY

- Worked on Google's worldwide low-level disk management system, specifically on diagnostics and the kernel that all of Google's storage systems run on.
- Designed and implemented a tool to detect latency in the lifecycle of an I/O syscall.
- Disk management team can use this diagnostics tool to detect and fix inefficiencies, which scale massively across all of Google's datacenters, potentially cutting major server costs.
- All code was reviewed and pushed to production.

CARNEGIE MELLON UNIVERSITY | Student Educator

Aug 2013 - May 2015 | Pittsburgh, PA

- Co-designed and co-taught two student-taught courses at Carnegie Mellon University: the wildly successful 98-222: Introduction to iOS Development, and 98-218: Solving Mathematical Problems in Python.
- Managed a small team of content creators to design lectures, homeworks, and projects. Headed a project to convert all course content from Objective-C to Swift.
- Provided high-quality and individualized teaching to over 300 students.

THE AMERICAN SUGAR REFINING CO. | Computer Science Intern

May 2011 - August 2013, summers only | Yonkers, NY

- Designed and implemented human-machine interfaces (HMIs) for refinery operators to interact with programmable logic controllers (PLCs).
- Automated refinery processes involving PLCs.
- Oversaw object-oriented abstracted of refinery machinery for automation and HMI programming.

RELEVANT PROJECTS

- Co-designed and co-implemented a small, Unix-inspired, preemptive multitasking kernel.
- Designed and implemented a floppy bootloader for the above kernel.
- Co-designed and co-implemented a full threading library for the above kernel.
- Implemented a rudimentary ray tracer and physics engine.
- Wrote a reasonably efficient clone of `malloc()` and friends.
- Designed and wrote personal website.
- Film, edit, and upload instructional iOS development videos on personal YouTube account.