

EMMETT NEYMAN

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EDUCATION

University of Pennsylvania, School of Engineering and Applied Science

Bachelor of Science in Engineering

August 2015 - May 2019

Major: Computer Science

Minor: Mathematics

Master of Engineering in Computer Science

January 2018 - December 2019

GPA: Bachelor: 3.63, Master: 3.91

Relevant Coursework: Data Structures, Algorithms, Intro to Computer Systems, Compilers, Computer Architecture, Operating Systems, Intro to Front-End Web Development, Computation and Complexity, Software Foundations, Distributed Systems, Network Systems, Artificial Intelligence, Software Analysis

SKILLS

C/C++, Java, Python, LLVM, OCaml, JavaScript, Unix/Linux, Coq, HTML/CSS, Git

EXPERIENCE

Software Engineering Intern, Mobile Compiler Team

June 2019-August 2019

Facebook, Seattle WA

- Implemented new compiler attribute for struct initialization.
- Added new tool to verify debug symbols created during binary optimization passes.

Software Engineering Intern

May 2018-August 2018

Google, Sunnyvale CA

- Member of the C++ Dynamic Tools team working on the LLVM/Clang codebase, specifically `clang-fuzzer`.
- Implemented fuzzing software to find miscompilation bugs in LLVM's optimization passes.

Teaching Assistant for Intro to Computer Systems - CIS 240

August 2017 - Present

University of Pennsylvania, Philadelphia PA

- Held weekly office hours, graded homework and exams, led review sessions.
- Wrote software in Python and Bash to automatically grade student submissions for C homework assignments.

Software Engineering Intern

May 2017 - August 2017

Bentley Systems, Philadelphia PA

- Used JavaScript and Cesium to develop a web app that allows a user to “drive” through 3D reality models.
- Wrote code to allow users to switch camera angles, pause the simulation, and upload new models to the site.
- Implemented a backend engine that allows a user to select different 3D models and routes to drive through.

Teaching Assistant for Intro to Computer Science - CIS 110

January 2017 - May 2017

University of Pennsylvania, Philadelphia PA

- Held weekly office hours, graded homework and exams, led review sessions.

EXTRACURRICULAR ACTIVITIES

Dining Philosophers (Undergraduate Computer Science Club) - Former President

University of Pennsylvania Club Ultimate Frisbee - President, B-Team Captain, and Webmaster

Access Engineering - Computer science instructor for underprivileged high school students

Best Humor Hack, PennApps XII, Best Health Hack, Dragonhacks 2016