

Emmett Neyman

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WORK EXPERIENCE

Software Engineer, *Meta* Feb 2020 - present

- Product Security Program Analysis Team (2021-Present). Creating static analysis tools for C/C++ code to find security vulnerabilities at scale.
- Integrity Measurement and Insights Team (2020-2021). Worked on data quality and governance efforts for externally reported integrity metrics.

Software Engineering Intern, *Facebook* Summer 2019

- Implemented new compiler attribute in Clang for struct initialization in Objective-C++.
- Created new CLI tool to verify debug symbols generated during binary optimization passes.

Software Engineering Intern, *Google* Summer 2018

- Member of the C++ Dynamic Tools team working on the LLVM/Clang codebase.
- Wrote fuzzing software to find miscompilation bugs in LLVM's optimization passes.

Software Engineering Intern, *Bentley Systems* Summer 2017

- Used JavaScript and Cesium to develop a web app that allows a user to "drive" through 3D models.
- Wrote code to allow users to switch camera angles, pause the simulation, and upload new models.

Teaching Assistant, *University of Pennsylvania* Jan 2017 - Dec 2019

- Held weekly office hours; graded homework, projects, and exams; and led review sessions.
- Wrote software in Python and Bash to automatically grade student submissions for C homework assignments. Deployed grading software so students' work was automatically graded upon submission.

EDUCATION

Jan. 2018 - Dec. 2019 Master of Engineering in Computer Science **University of Pennsylvania**
GPA: 3.91

Sep. 2015 - May 2019 Bachelor of Science in Engineering **University of Pennsylvania**
GPA: 3.63
Major: Computer Science
Minor: Mathematics

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

SKILLS

Languages: C/C++, Python, Java, Hack, JavaScript, Haskell, OCaml

Technologies: Clang/LLVM, Unix/Linux, Git