

DAVID HUGH HARRIS III

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EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN
BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND MATHEMATICS
MINOR IN BUSINESS

Class of 2018

EXPERIENCE

FACEBOOK, INC.

Menlo Park, CA

Production Engineer, Data Security Systems

June 2018 -

- Led reliability improvement efforts for five core services in the authorization space
- Established SLOs for ten services, implementing and re-augmenting alarms for their associated thresholds
- Revamped dashboards so that they can be used by the on-call to decrease "MTTC: mean-time-to-clue"
- Automated renewals of 30,000 public certificates and reduced lifetimes to improve security
- "Hugh has demonstrated great proficiency in applying academic knowledge to solve practical problems"
- Developed standardized alerting and admission control libraries that are used by a team of 30 engineers
- Conducted dozens of systems interviews and visited universities to assist with Facebook's recruiting efforts

Production Engineer Intern

May 2017 - August 2017

- Wrote a sophisticated CLI tool using the latest features of Python 3 and a highly extensible modular design
- 100% unit test coverage and consistently maintained a "exceptionally high" quality of work
- Implemented a logging functionality that writes to two different kinds of databases with an elegant GUI
- Produced over 10,000 lines of production code—"more output than any other intern" on my team.

THOMAS ENGINEERING, INC.

Hoffman Estates, IL

Automation Engineer Intern

May 2016 - August 2016

- Documented and reviewed Microsoft SQL Server and applied patches to the code
- Built features that amounted to a 150% speedup when fetching data
- Collaborated with other engineers and created a visualization of the database

COMPUTER SCIENCE BACKGROUND

HACKATHONS

- Hack Illinois 2017 Finalist – "Rust Cookbook" – <https://github.com/rust-lang-nursery/rust-cookbook>
 - o Recipient of the "Staff's Pick" and "Long Con" awards for our long term contributions to the project
 - o Featured on the official Rust-Lang blog and commended as one of the largest achievements of 2017
 - o Open source GitHub repository has nearly 500 commits and 55 contributors as of October 2017
 - o Set the standard for quality of future Rust documentation

PROGRAMMING LANGUAGES

- Intermediate experience using PHP (Hack), Rust, Java and Assembly
- Advanced knowledge of Python 3 with experience using modern mock/unit testing frameworks and asyncio
- Advanced knowledge of C/C++, including low level systems programming, inline assembly and OS design
- Over five years of experience managing UNIX/Linux servers in a production environment

SOFTWARE PROJECTS

- Flight Simulator written in OpenGL using object oriented graphics programming techniques
- Numerous other projects for class, such as implementing a shell, malloc and make
- Active contributor to the Rust programming language and supporting documentation