

Tyler O'Meara

tyleromeara.com
resume@tyleromeara.com | 845.242.2181

EDUCATION

STANFORD UNIVERSITY

MS IN COMPUTER SCIENCE

September 2019 - Present

Primary Depth in Systems

Cumulative GPA: 4.12

THE UNIVERSITY OF TEXAS AT AUSTIN

BS IN COMPUTER SCIENCE

December 2016 | Austin, TX

Turing Scholars Honors Program

Cumulative GPA: 3.90

SKILLS

COMPUTER SCIENCE

Distributed Systems

System Design

Concurrent Programming

Internet Networking

Infrastructure Security

PROGRAMMING LANGUAGES

C++ (Proficient)

Go (Proficient)

Python (Familiar)

C (Familiar)

LINKS

Github:// [Acidity](#)

LinkedIn:// [tyleromeara](#)

COURSEWORK

STANFORD

Advanced Topics in Operating Systems

Data Management and Data Systems

Introduction to Cryptography

Principles of Data-Intensive Systems

Computer Systems Architecture

Performance Engineering of Computer

Systems and Networks

Technology for Financial Systems

TEXAS

Advanced Operating Systems

Algorithms and Complexity Honors

Computer Architecture Honors

Computer Security

Computer Systems (OS) Honors

Distributed Computing Honors

Network Security

EXPERIENCE

GOOGLE | SOFTWARE ENGINEER

January 2018 - Present | Search Infrastructure | Mountain View, CA

- Worked on the core Search Infrastructure team, which ran search for Google Websearch, YouTube, Google Apps (Drive, Gmail, etc.) and more
- Helped redesign the configuration mechanism in order to greatly simplify the system and decrease time to live while maintaining reliability
- Implemented core components of the new config system, including the standard client library
- Worked with relevant stakeholders such as SRE to drive policy improvements
- Led efforts ensuring that testing setups worked well with the new config system

QUORA | SOFTWARE ENGINEER

January 2017 - January 2018 | Infrastructure Security | Mountain View, CA

- Led Infrastructure Security projects on the Infrastructure team
- Designed, implemented, and rolled out new extensible SSH infrastructure to all developers with minimal interruption to existing workflows
- Leveraged the new SSH infra to require two factor authentication (2FA), central key management, and improved auditability for all SSH connections
- Developed a long term plan for the ingestion, processing, and analysis of security logs in collaboration with the Data Platform team
- Led infrastructure modernization efforts by pioneering the use of new industry standard technologies such as Docker containers and autohealing infrastructure
- Coordinated with several engineers to enact process improvements for documentation, response, and long term resolution of infrastructure incidents and to improve team efficiency
- Reviewed and provided feedback on proposals for new technical systems from multiple engineering organizations, ensuring the security and reliability of newly built systems

DROPBOX | SOFTWARE ENGINEERING INTERN

May 2016 - August 2016 | Infrastructure Security | San Francisco, CA

- Worked on **Grouper** as a member of the Infrastructure Security Team
- Added ability for users to tag SSH keys, restricting their access to a subset of the user's permissions
- Designed and implemented support for service accounts in order to facilitate automated access to Grouper protected resources
- Designed an extensible interface for the management of secrets in secret distribution systems, leveraging Grouper's access control support to protect changes
- Integrated Dropbox's proprietary secret distribution system with Grouper's interface to improve common secret management workflows

PUBLICATIONS

- [1] Oliver Jensen, Tyler O'Meara, and Mohamed Gouda. "Securing NFC Credit Card Payments against Malicious Retailers". In: *The International Conference on Networked Systems* (2016).
- [2] Tyler O'Meara. *Securing DNSSEC Against State Level Adversaries*. Undergraduate Honors Thesis. Department of Computer Science, The University of Texas at Austin, 2016.