

Hunter Gatewood

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EDUCATION

MIT

MENG IN COMPUTER SCIENCE

June 2019 | Cambridge, MA

BS IN COMPUTER SCIENCE

June 2017 | Cambridge, MA

COURSEWORK

GRADUATE

6.431 Probabilistic Systems Analysis

6.824 Distributed Systems

6.828 Operating Systems

6.857 Computer and Network Security

6.858 Computer Systems Security

6.871 Performance Engineering

UNDERGRADUATE

6.004 Computation Structures

6.005 Software Construction

6.033 Computer Systems Engineering

6.034 Artificial Intelligence

6.036 Machine Learning

6.046 Design and Analysis of Algorithms

18.06 Linear Algebra

TEACHING ASSISTANT

6.042 Mathematics for Computer Science

6.148 Web Programming Competition

6.179 Introduction to C and C++

6.S08 Interconnected Embedded Systems

SKILLS

PROGRAMMING

Experienced

Python • C • JavaScript

Familiar

Go • Bash • C++ • Java • Ruby

Other

Linux • Ansible • Docker • Vagrant

Libraries & tools

Systemd • MEAN stack • Firebase

Gulp • Jasmine • Istanbul • JQuery

Concepts

Performance Eng • OS Design • TDD

System Design • OO Patterns • UI/UX

AWARDS

MIT 6.148 2016

First runner up and audience choice awards for the MIT Web Programming Competition

EXPERIENCE

FACEBOOK INFRA | SOFTWARE ENGINEERING INTERN

Summer 2017 | Menlo Park, CA

- Added storage microservice to fixed-wireless connectivity project (Linux, Redis)
- Standardized and implemented implicit serialization-based persistence patterns for existing microservices (Python, C, C++)
- Updated integration tests to cross multiple machines (Ansible, Vagrant, Swagger)

MICROSOFT AZURE | SOFTWARE ENGINEERING INTERN

Summer 2016 | Redmond, WA

- Developed a full stack A/B testing framework for Express+Angular apps (MEAN)
- Wrote configuration library used by IoT services to abstract away configuration sources (TypeScript)
- Implemented Git hooks-based module to enforce commit best-practices (JS)

MIT WEB PROGRAMMING COMPETITION | INSTRUCTOR

2016 - 2017 | Cambridge, MA

- Taught web development concepts to a class of 150 MIT students
- Graded and evaluated fully functioning web apps from 40 teams competing for \$20,000 in prizes
- Directed auxiliary operations as Operations Chair managing \$15,000 in budget

ZEARN | SOFTWARE ENGINEERING INTERN

Summer 2015 | New York, NY

- Created interactive in-browser math games for Zearn's 3rd grade curriculum

RESEARCH

MIT LINCOLN LABORATORY | GRADUATE RESEARCH ASSISTANT

2018 - 2019 | Lexington, MA

- Wrote thesis on architectures and techniques for scalable secure communication in resource-constrained systems

MIT CSAIL | UNDERGRADUATE RESEARCHER

2016 - 2017 | Cambridge, MA

- Implemented security features for Sanctum, a set of minimal hardware extensions for strong software isolation

MIT SPACE SYSTEMS LABORATORY | UNDERGRADUATE RESEARCHER

2015 | Cambridge, MA

- Upgraded the MiRaTA satellite's RTOS handling telemetry, scheduling, and packet-delivery

EXTRAS

MIT Code for Good	Built data collection tool for local nonprofit	2016
Maseeh Hall	Created room assignment algorithm	2015
Maseeh Hall	GRT Selection Committee	2016
Freshmen Orientation	Orientation Leader (Captain)	2014 - 2017
Associate Advising	Associate Advisor to the Provost	2014 - 2017
MIT HKN	6.046 Algorithms Tutor	2016
MIT TCC	Council Secretary	2015
MIT Annual Fund	Undergraduate Giving Campaign volunteer	2014