

# GEORGE

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## EDUCATION

### University of California, Berkeley

*Class of 2016*

*Bachelor's, Computer Science*

Developed diverse projects such as secure file sharing, stereograms, and inverse kinematics  
Specialized upper-division studies in systems, computer graphics, and networking  
Worked as a Lab Assistant for the *Machine Structures* course

### Georgia Institute of Technology

*Aug. 2018 – present*

*Master's, Computer Science*

Studying ideas in computer vision, educational technology, and the applications of AI

## PROFESSIONAL EXPERIENCE

### Microsoft Corporation

*Aug. 2016 – 2018*

*Software Engineer — Software-Defined Networking*

Contributed to HNS, the native virtual network manager in Windows  
Added IPv6 support and a multi-threaded notification system to react to external events  
Implemented and [officially documented](#) Kubernetes alpha support for shared pods on Windows  
Added versioning support for seamless transitions of service data between Windows upgrades  
Developed a public cloud network policy provisioner for Azure-based systems

### Sony Network Entertainment Int'l.

*Apr. 2013 – Aug. 2014*

*Software Engineer — Test Automation Infrastructure, Intern*

Interfaced with Selenium to automate testing on the PlayStation® 4  
Ported over-the-network firmware upgrades into a cross-platform Python toolkit  
Created a multi-threaded network service to facilitate distributed testing  
Maintained and improved unit test stability and performance for the PlayStation Store®

### CE Resource, Inc.

*May 2015 – Aug. 2015*

*Software Engineer — Full-Stack, Intern*

Developed back-ends with a variety of toolkits for both internal and customer-facing websites  
Queried PostgreSQL databases to efficiently process large quantities of data  
Styled and designed front-ends using both XSLT and HTML5 suites  
Independently implemented and integrated a customer-facing standalone survey site  
Facilitated test-driven development using tools such as Django's `unittest` framework

## NOTEWORTHY PROJECTS

### **Cicada**, a peer-to-peer distributed networking framework

Python networking framework designed to provide optimal routes with DHTs  
Designed for distributing data efficiently and anonymously in a decentralized manner  
Features a [well-documented API](#) and includes samples like a serverless IM client

### **Zenderer**, a 2D OpenGL game development framework

A C++ framework enabling rapid game prototyping, also ported to JavaScript w/ WebGL  
Applied it to create a 2D puzzle-platformer and a peer-to-peer real-time strategy game  
~18,000 lines of code, including meticulous Doxygen documentation

## PROFESSIONAL INTERESTS

Undying passion for P2P and decentralized networking, as well as trustless architectures  
Study of consensus algorithms, zero-trust protocols, and other modern cryptographic principles  
Exploration of developing multiplayer, cross-platform puzzle and strategy games  
Interest in the potential of public blockchains beyond just currency