

# GEORGE

[george.ok@pm.me](mailto:george.ok@pm.me)

## PROFESSIONAL EXPERIENCE

### Strivr

Summer 2019

*Software Engineer — Virtual Reality*

Integrated a “review mode” into training experiences for easy in-headset navigation and QC  
Improved UI consistency, working closely with designers to implement their wireframes in **Unity**  
Debugged and restored a custom network protocol for casting mobile VR units to the desktop  
Ensured compatibility across both desktop and mobile VR devices (the Oculus product family)

### Microsoft Corporation

Aug. 2016 – 2018

*Software Engineer — Software-Defined Networking*

Contributed to HNS, Windows’ native virtual networking manager written in **C++**  
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 across Windows upgrades  
Developed a public cloud network policy provisioner for Azure-based systems

### Sony Network Entertainment Int’l.

Summer 2015

*Software Engineer — Test Automation Infrastructure, Intern*

Ported the PlayStation’s remote firmware upgrade protocol to a cross-platform **Python** toolkit  
Interfaced with **Selenium** to automate testing and QA on the PlayStation® 4’s Store  
Created a multi-threaded network heartbeat service to facilitate distributed testing

### CE Resource, Inc.

Apr. 2013 – Aug. 2014

*Jr. Software Engineer — Full-Stack*

Developed back-ends in **PHP** and **Django** for both internal and customer-facing websites  
Independently implemented and integrated a standalone survey site used by 1000s of customers  
Queried **PostgreSQL** databases to efficiently process terabytes of customer data

## EDUCATION

### Georgia Institute of Technology

Spring 2020 (4.0 GPA)

*Master of Science in Computer Science*

*Computational Perception & Robotics*

Developed a pipeline to transform football footage into interactive VR simulations  
Explored ideas in machine learning, computer vision, robotics, and finance  
Deepened my understanding of cryptography, operating systems, and algorithms  
Published a series of comprehensive,  $\text{\LaTeX}$ -typeset **notes** on these topics to reinforce knowledge

### University of California, Berkeley

Spring 2016 (3.3 GPA)

*Bachelor of Arts in Computer Science*

*Computing Systems & Graphics*

## NOTEWORTHY PROJECTS

### Beacon Platform, an Ethereum-backed messaging platform

(unreleased)

A centralized messaging platform written in **Qt/C++** that eliminates the need for platform trust  
Uses modern cryptographic techniques like the **Signal** protocol to ensure message confidentiality  
Automates out-of-band identity verification in **Ethereum** for validating recipient authenticity

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

**Python** networking framework designed to provide optimal routes with DHTs  
Designed for distributing data securely, efficiently, and anonymously in a decentralized manner  
Features a **well-documented API**, a visualizer, and sample programs like a serverless IM client

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

A rapid game prototyping framework, written in **C++** and ported to **JavaScript** with **WebGL**  
Applied to create a demo 2D puzzle-platformer and a peer-to-peer real-time strategy game  
~18,000 lines of code, including meticulous **Doxygen** documentation and a **GitHub wiki**