

GEORGE KUDRAYVTSEV

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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 via **Jenkins**

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, \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](#)