

GEORGE K.

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PROFESSIONAL EXPERIENCE

Stellar Development Foundation

August 2020 – Present

Software Engineer II — Platform

Working on the [Horizon](#) API server that powers the [Stellar blockchain](#) payment network
Writing performant, scalable, and maintainable [Golang](#), [Python](#), and [JavaScript](#) code
Improving scalability of a system that serves TBs of data at 10,000 requests per second
Maintaining ownership of the [TypeScript SDK](#), including adding protocol features
Reviewing, advising on, and implementing [Stellar protocol proposals](#)
Authoring [guides](#), [blog posts](#), [docs](#), and ecosystem [standards](#)

Georgia Institute of Technology

August 2020 – Present

Head Instructor Assistant — Applied Cryptography

[\(course link\)](#)

Providing instruction and facilitating learning for 120+ student cohorts in an online environment
Developing [cryptanalysis](#) challenges and publishing comprehensive [course notes](#)
Working closely with [Dr. Alexandra Boldyreva](#) to improve course quality

Strivr

Summer 2019

Software Engineer — Virtual Reality, Graduate Intern

Integrated a “quality control” mode into [VR](#) training experiences for easy in-headset navigation
Improved UI consistency, working closely with designers in converting wireframes to [Unity/C#](#)
Applied [photogrammetry](#) techniques on [Kinect](#) output to import real-world assets into VR

Microsoft Corporation

Aug. 2016 – 2018

Software Engineer — Software-Defined Networking

Contributed to HNS, Windows’ native virtual networking manager written in [C++](#)
Established support for IPv6, initial [support](#) for [Kubernetes](#), and a MT system event handler
Developed a public cloud network policy provisioner for Azure-based systems

Sony Network Entertainment Int’l.

Summer 2015

Software Engineering Intern — Test Automation Infrastructure

Ported the PlayStation’s remote firmware upgrade protocol to a cross-platform [Python](#) toolkit
Interfaced with [Selenium](#) and [Jenkins](#) to automate testing on the PlayStation® Store

CE Resource, Inc.

Jr. Software Engineer — Full Stack

Aug. 2013 – Aug. 2014

Software Engineering Intern

Summer 2013

Developed back-ends in both [PHP](#) and [Django](#) for internal and customer-facing websites
Independently designed, developed, and integrated a survey site used by thousands of customers
Queried [PostgreSQL](#) databases to efficiently process terabytes of customer data

EDUCATION

Georgia Institute of Technology

2018 – 2020

Master of Science in Computer Science

Computational Perception & Robotics (GPA: 4.0)

University of California, Berkeley

2014 – 2016

Bachelor of Arts in Computer Science

Computing Systems & Graphics (GPA: 3.4)

NOTEWORTHY PROJECTS

Beacon Platform, an *Ethereum-backed encrypted messaging platform*

(unpublished)

A centralized, yet trustless E2EE messaging platform based on the [Signal Protocol](#) that delegates out-of-band identity verification to the [Ethereum](#) blockchain ([Qt/C++/Solidity](#))

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

A networking framework designed to provide optimal routing (via DHTs) to massive P2P swarms for decentralized, encrypted, and semi-anonymous data distribution ([Python](#))