# Nick Spinale

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## EDUCATION

## CARLETON COLLEGE

MATH/COMPUTER SCIENCE

Sep 2014 - June 2018 | Northfield, MN

GPA: 3.8

Phi Beta Kappa

### Selected Courses

Topics in Abstract Algebra

Topics in Elliptic Curves

Programming Languages

Computer Architecture

Operating Systems

Data Mining

Probability Theory

Statistical Inference

Multivariable Calculus

Quantum Computing

#### RENI INSTITUTE

#### MATHEMATICS

Aug – Dec 2016 | Budapest, Hungary

GPA: 4.0 Courses

Mathematical Cryptography

Theory of Computing

Number Theory

Graph Theory

Set Theory

## SKILLS

## LANGUAGES

Most Comfortable:

Haskell • C • Python • Go

Shell • Java • JavaScript • TeX

Comfortable

C++ • R • Scheme • Idris • Nix

SQL • HTML/CSS • VimScript

ASM (x86, ARM, MIPS) • Agda

Ruby • Magma • Mathematica

#### SYSTEMS AND TOOLS

Unix-like environments • Git AWS • Kubernetes • Docker

IDA Pro • Radare2 • GDB

## LINKS

nickspinale.com

**Q** github.com/nspin

in linkedin.com/in/nickspinale

nick@nickspinale.com

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## EXPERIENCE

## ARM RESEARCH | System Software Security Engineer

October 2018 - Present | Cambridge, UK

• Investigating and improving Security, Trust, Correctness, and Privacy in computer systems.

## GOOGLE | SOFTWARE ENGINEERING INTERN

June – September 2017 | Sunnyvale, CA

- Collaborated with a number of teams, both internal and external (including Istio and SPIFFE), to push the state of the art of security within service-oriented systems towards mTLS-everywhere.
- Developed a system for securely bootstrapping and managing service identities within the Google Cloud Edge infrastructure.

## CARVE SYSTEMS, LLC | HACKNY FELLOW + INTERN

June - December 2016 | New York, NY

- Conducted penetration tests on client systems and products.
- Built tools for discovering vulnerabilities in a variety of systems.
- Maintained servers and services for simulating attacks and streamlining the security assessment and reporting process.

## DATRIUM, INC | SOFTWARE ENGINEERING EXTERN

December 2015 | Sunnyvale, CA

- Collaborated with a team of senior engineers and researchers on a cutting-edge virtualized storage system.
- Built a set of utilities for deserializing intermediate data from a long-running space reclamation process.

# CARLETON COLLEGE | COMPUTER SCIENCE LAB ASSISTANT

September 2015 - Present | Northfield, MN

- Aid fellow Computer Science students in developing problem solving skills and algorithmic intuition.
- Identify, explain, and help correct bugs in students' Python, Java, C, MIPS, and Scheme programs.

## PISMO INVESTMENTS | SOFTWARE ENGINEERING INTERN

June - September 2015 | Waltham, MA

- Contributed to the schematics of an inference engine for modeling and analyzing corporate structure.
- Built and maintained an Enterprise Java backend that interfaced with a relational database and exposed a REST API.
- Designed a web application using Angular.js that demonstrated Pismo's product's modeling capabilities to potential investors.

## AWARDS

2014 U.S. Presidential Scholar U.S. Department of Education

2016 HackNY Fellow

2018 David Pollatsek Prize in Computer Science Carleton College

HackNY