

Nick Spinale

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EDUCATION

CARLETON COLLEGE

MATH/COMPUTER SCIENCE

Sep 2014 – June 2018 | Northfield, MN

Major GPA: 3.98

SELECTED COURSES

Programming Languages

Topics in Elliptic Curves

Computer Architecture

Operating Systems

Data Mining

Abstract Algebra

Probability Theory

Statistical Inference

Software Development

Multivariable Calculus

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

Over 5000 lines:

Haskell • C • Python • Go

Shell • Java • JavaScript • TeX

Over 1000 lines:

C++ • R • Scheme • Idris • Nix

SQL • HTML/CSS • VimScript

Familiar:

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
-  github.com/nspin
-  [linkedin.com/in/nickspinale](https://www.linkedin.com/in/nickspinale)
-  nick@nickspinale.com
-  617.229.5498

EXPERIENCE

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.

COLEGIO SALESIANO DON BOSCO | ENGLISH TEACHER

May – July 2014 | Masaya, Nicaragua

- Taught English classes of up to fifty students from grades four through six in an economically struggling neighborhood.
- Organized, advertised, and led language exchange groups open to the public.
- Assisted in teaching upper-level English to high school students and adults.

AWARDS

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| 2014 | U.S. Presidential Scholar | U.S. Department of Education |
| 2016 | HackNY Fellow | HackNY |