Nick Spinale

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EDUCATION

CARLETON COLLEGE
Math/Computer Science
Sep 2014 – May 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: 4.2

Courses
Mathematical Cryptography
Theory of Computing
Number Theory
Graph Theory
Set Theory

SKILLS

LANGUAGES
Over 5000 lines:
Haskell • Python • C • Java SE/EE
JavaScript (JQuery, Angular) • TeX
Over 1000 lines:
Shell • R • HTML/CSS • Nix
Scheme/Racket • VimScript
Familiar:
C++ • x86 ASM • Ruby • Go
Agda • Magma • Mathematica

SYSTEMS AND TOOLS
Unix-like environments • Git
Linux (NixOS, Ubuntu, Debain)
AWS • Kubernetes • Docker
Nginx • Drozer • Burp

LINKS

- nickspinale.com
- github.com/nickspinale
- linkedin.com/in/nickspinale
- spinalen@carleton.edu
- 781.654.5163

EXPERIENCE

GOOGLE | Software Engineering Intern
June 2017 – Present | Sunnyvale, CA

- Develop a system for securely bootstrapping and managing service identities within the Google Cloud Edge infrastructure.
- Collaborate 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.

CARVE SYSTEMS, LLC | HackNY Fellow + Intern
June 2016 – December 2016 | New York, NY

- Conducted penetration tests on client systems and products.
- Built tools for automating vulnerability discovering 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

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