

# Nick Spinale

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## EDUCATION

### RENI INSTITUTE

#### MATHEMATICS

Aug – Dec 2016 | Budapest, Hungary

#### COURSES

Mathematical Cryptography

Theory of Computing

Number Theory

Graph Theory

Set Theory

### CARLETON COLLEGE

#### MATH/COMPUTER SCIENCE

Sep 2014 – May 2018 | Northfield, MN

Cum. GPA: 3.8

Major GPA: 4.0

#### SELECTED COURSES

Programming Languages

Computer Architecture

Software Development

Operating Systems

Data Structures

Abstract Algebra

Multivariable Calculus

Mathematical Structures

## SKILLS

### LANGUAGES

*Over 5000 lines:*

Haskell • Python • C • Java SE/EE

JavaScript (jQuery, Angular) • TeX

*Over 1000 lines:*

Shell • Assembly • Scheme/Racket

HTML/CSS • Nix • VimScript

*Familiar:*

x86 ASM • Agda • Ruby

### SYSTEMS AND TOOLS





Git • Maven

Nginx • Unix-like environments

Linux (NixOS, Ubuntu, Debain)

Drozer • Burp

## LINKS

 [nickspinale.com](http://nickspinale.com)  
 [github.com/nickspinale](https://github.com/nickspinale)  
 [linkedin.com/in/nickspinale](https://www.linkedin.com/in/nickspinale)  
 [spinalen@carleton.edu](mailto:spinalen@carleton.edu)  
 781.654.5163

## EXPERIENCE

### CARVE SYSTEMS, LLC | HACKNY FELLOW + INTERN

June 2016 – Present | New York, NY

- Conduct penetration tests on client systems and products.
- Create tools for automating vulnerability discovering in a variety of systems.
- Maintain servers and services for simulating attacks and streamlining the security assessment and reporting process.

### DATRIUM, INC | SOFTWARE ENGINEERING INTERN

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.

### PISMO INVESTMENTS | SOFTWARE ENGINEERING INTERM

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.

### 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.

### CARLTV | WRITER, FOUNDING MEMBER

September 2015 – Present | Northfield, MN

- Write and produce a Daily Show-like satire program with a team of peers.
- Collaborated in an effort to charter the organization and recruit a new generation of members.

### 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