

# Alok Tripathy

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## Objective

To obtain a software engineering internship for 2016.

## Education

Georgia Institute of Technology | Computer Science | Atlanta, GA | Aug 2015 - May 2019

- Sidney Goldin Scholarship for “outstanding leadership abilities”

Princeton University | Dual Enrollment | Princeton, NJ | Sept 2014 - May 2015

- Algorithms and Data Structures, Theory of Algorithms

## Skills

**Computer:** Java, C, JavaScript, Python, HTML5, CSS3,

Reverse Engineering, Binary Exploitation, Cryptography,

Algorithms, Data Structures, Computer Security, Machine Learning, Linux command line

**Miscellaneous:** Baseball, Violin

## Work Experience

**Research Assistant at High Performance Computing Lab | Georgia Tech**

**(Nov '15 - present)**

- Helps design parallel and streaming graph algorithms.
- Works to improve load balancing for parallel algorithms.
- Implements these graph algorithms on multi-core systems in C.

**Software Developer Intern at Bloomberg L.P. | Princeton, NJ**

**(Feb '15 - Jun '15)**

- Designed and implemented machine learning features to extract tables from PDF files in Java.
- Helped design framework for representing PDF files internally.
- Wrote machine learning software that is now in Bloomberg's production environment.

## Honors

**13th Nationally - Computer Security Awareness Week Capture-the-Flag College Division**

**17th Internationally - Codegate Capture-the-Flag Final Round, Seoul, South Korea**

**2nd Nationally - Codegate Capture-the-Flag Final Round**

**24th Internationally - Plaid Capture-the-Flag**

**10th Nationally - Computer Security Awareness Week Capture-the-Flag HS Division**

**14th Nationally - Pico Capture-the-Flag**

**2nd Regionally - Philadelphia Classic**

**USA Computing Olympiad Gold Division**

## Projects

**StreamingBC - HPC Lab**

**(Nov '15)**

- Implemented deletion case for streaming between centrality algorithm in C.
- Improving load balancing for parallel streaming BC algorithm.

**SeeSay - PennApps XII**

**(Sept '15)**

- Made server save snapshots and serve static content.
- Integrated and perfected text-to-speech feature into app.

**Vearch - PennApps XI**

**(Jan '15)**

- Made server download and organize videos with Node.js
- Created responsive user interface with socket.io
- Project placed in top 30 among all 224 projects

**Seeding.rocks - PennApps X**

**(Sept '14)**

- Created new BitTorrent-like method of hosting websites.
- Enabled an Intel Edison to run as a web server.

**WordyScript - hackBCA**

**(Mar '14)**

- Wrote how English would be translated into Python.
- Helped design user interface.
- Top 20 among 81 projects and won NameCheap prize

## Leadership

**Co-Founder and VP at High School CTF (Apr '14 - Jun '15)**

- 2000+ person high school computer science competition.
- Wrote problems and got sponsors (Facebook, Bloomberg, Trail of Bits)

**Co-Founder, Co-President at HSCS.io (Jun '14 - Jun '15)**

- Helped other students run CS competitions.
- Organized people into teams and assigned tasks.
- Wrote problems and got sponsors.

**Co-Founder and VP of CS Club (Sept '14 - Jun '15)**

- Gave lectures on algorithms and computer security.
- Organized participation in competitions.

**Teaching Assistant at Program for (Jun '14 - Jun '15)**

**Algorithmic and Combinatorial Thinking**

- Mentored students in discrete math and theoretical CS.
- Studied randomized algorithms and machine learning.