

# Jonathan Sun

6757 Lerner Hall, 2920 Broadway • New York, NY 10027 • (646) 469-0542 • jonathan.sun@columbia.edu

## Education

### Columbia University in the City of New York

Expected Graduation: May 2017

Columbia College – B.A. Computer Science

- Major: Computer Science. Concentrations: Mathematics, Statistics.
- Current Courses: Programming Languages and Translators, Statistical Machine Learning, Analysis of Algorithms, and Intro to Probability & Statistics.
- Relevant Courses: Advanced Programming, CS Theory, Fundamentals of Computer Systems, Data Structures & Algorithms, Discrete Math, Honors Intro to CS, Calculus III & IV, Linear Algebra (Cornell, Fall 2012).

## Work Experience

### Software Development Internship

Summer 2015

Everplans, NYC

- Full-stack member of the development team, working in an agile-development environment. Contributed to the final production and release of a milestone online service product.
- Contributed to the publication of a JavaScript library – a React.js & Flux utility belt that handles simple patterns around the unidirectional data flow, built to test.

### High-Energy Gamma-Ray Astrophysics & Cosmology Research

Summer 2014

Nevis Laboratories, Columbia University

- Development of Mirror Panel Edge Sensors for next-gen Cherenkov Telescope Array.
- Streamlined procedure for testing hundreds of edge sensor parts. Analyzed large edge sensor dataset for performance and stability against environmental factors.
- Published paper in Columbia Undergraduate Science Journal.

## Research

### Anonymous Identity-Based Encryption Research

May 2015 – Ongoing

Columbia University: Department of Computer Science

- Working with Dr. Allison Bishop to develop a new anonymous IBE scheme based on three group elements.

## Honors & Awards

### Science Research Fellow

Fall 2013

Columbia University in the City of New York

- One of eleven SRFs in the Class of 2017, a prestigious four-year designation for Columbia's best science students.

### National Merit® Corporate Scholarship

Spring 2013

BorgWarner Inc.

- Selected by the National Merit® Scholarship Corporation for a four-year sponsorship award.

## Skills

- Proficient in Java, C, JavaScript, Ruby, Python, Gitflow, LaTeX, and UNIX. Learning OCaml and R. Familiar with C++, Perl, and MIPS.
- Languages: Chinese (fluent speaker), French (working proficiency).

## Extracurricular

**Clubs** Application Development Initiative (ADI Labs member)

Columbia Classical Performers (board member, webmaster)

Sabor: 'Columbia's First Latino Dance Troupe' (board member, webmaster)

**Sports** Soccer, tennis

**Music** Columbia University Orchestra

Columbia Pops Orchestra

Solo violin & piano performance