

# Mason Silber

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## Education

### **Columbia University**

**New York, NY**

*May 2013*

- Major: Computer Science, Minor: Physics
- GPA: 4.0 (Major), 3.5 (Overall), Dean's List
- John Jay Scholar (Awarded to top 10% of incoming students)

### **Cheltenham High School**

**Wyncote, PA**

*June 2009*

- Valedictorian, National Merit Scholar
- National Honor Society (2007-2009) – President (2008-2009)
- First place award in Physics, Pennsylvania State Science Fair (2006-2008)

## Coursework

Data Structures and Algorithms (Fall 2011)

Object-Oriented Design/Java

Advanced Programming (Fall 2011)

Programming in C++

Discrete Mathematics/Combinatorics

Intro. Computer Science/Java

## Technologies

**Programming Languages** Java, C++, Objective-C

**IDEs** XCode, Eclipse, Netbeans

**Technologies** Unix, Core Location, Core Data, MapKit, Webkit for iOS, XML, JSON, HTTP, PKI, Basic Auth.

## Experience

### **Boeing Defense, Space, And Security/Kestrel EI**

**Berkeley Heights, NJ**

*Software Engineer Intern*

*May 2011-August 2011*

- Envisioned, designed, and prototyped a native iPad app to replace Kestrel's web client for TAC, an intelligence-organizing software product intended for governmental intelligence agencies and military organizations
- Utilized WebKit, XML, and JSON to parse, display, and navigate through large quantities of data in an intuitive and efficient manner

### **Next Generation 911 (NG-911)**

**New York, NY**

*iOS Mobile App Developer*

*September 2011-Present*

- Working with Prof. Henning Schulzrinne and the FCC to integrate media and data with emergency communications
- Designing the iPhone app to facilitate emergency communications with 911 via text, photo, and video

### **Columbia University Information Technology**

**New York, NY**

*Software Developer*

*February 2011-Present*

- Designing and implementing a new internal scheduling and timesheet application in Python and Django

## Independent Projects

### **StuffNearMe**

*August 2011-Present (in progress)*

- iPhone/iPod Touch app to help users find places of interest near the user's current location or specified address.
- Written for iOS 5. Utilizes Core Data, Core Location, and MapKit Cocoa libraries. Uses JSON parsing combined with the Google Places API to obtain search results

### **Instructor: Introduction to iOS Development**

*October 2011-December 2011*

- Teaching a weekly lecture targeting novice programmers. Subjects to be covered include an introduction to Objective-C and memory management, XCode 4, Cocoa basics, the MVC paradigm, and select Cocoa frameworks

## Activities

### **Columbia Society of Automotive Engineers**

**New York, NY**

*Treasurer (2010-2012 Academic years)*

*September 2009-Present*

- Design and build a full-sized racecar, with primary goals of cost efficiency, speed, and safety
- Spearheaded exhibit at New York International Auto Show (April 2010)

### **Elkins Park Fire Company**

**Elkins Park, PA**

*Firefighter*

*November 2007- Present*