

# ALEXANDER C. GOLDMAN

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## Experience

### Independence Blue Cross Mobile App Development

Intern | 2015-2016

Managed an MSSQL database using Java and SQL to parse log files & interact with other databases (MySQL, DB2, Oracle, etc.) Leveraged JDBC connections to the MSSQL database to generate Microsoft Excel reports for user analysis.

### Mercury Technology Consulting Coding Camp

Coding Instructor | 2015

Taught 20 rising high school freshmen the basics of HTML, CSS, and Javascript. Collaborated on curriculum design and oversaw the completion of a personal website project for each student.

### University of Pennsylvania Computer Science Department

Teaching Asst | 2014-2015

Responsible for co-teaching recitation of 20 students once a week, holding office hours, grading homework assignments and exams, and designing and developing the PennChat assignment.

## Personal Projects

### OpenDesk (September 2014-April 2015)

Node.js/Python web application to predict availability of different study spaces at the University of Pennsylvania using a Decision Tree Regressor from SK-Learn.

### Tripster (November 2014-December 2014)

Node.js social networking site to facilitate trip planning. Users can create a trip, post photos and other content, invite users to trips, like content, and see all of this in a newsfeed. Users can also search for other users, user's photos or trip locations. There is a MongoDB cache to reduce look-up time for already-searched items.

### PennChat (July 2014-August 2014)

Crafted new homework assignment for CIS120 wherein students develop their own instance of a chat client in Java using a modified specification of the IRC Protocol.

### Othello (March 2015-April 2015)

Developed command-line version of the classic boardgame in Haskell (playable with 1 or 2 players).

### Tac OS (November 2014-December 2014)

Built simple operating system, consisting of file system, kernel and shell in C.

## Education

### University of Pennsylvania

Philadelphia, PA (May 2015)

BSE, Computer Science

BA, Mathematics

GPA: 3.18

### University College London

London, UK (Fall 2013)

Study Abroad, Departments of Computer Science & Mathematics

### J.R. Masterman High School

Philadelphia, PA

High School Diploma

GPA: 4.05 | SAT: 2270

## References

**David Rowland**, david.rowland@ibx.com

Senior Technical Program Manager,

Independence Blue Cross

**Val Tannen**, val@cis.upenn.edu

Professor, UPenn Department of Computer and Information Science

**Stephanie Weirich**, sweirich@cis.upenn.edu

Professor, UPenn Department of Computer and Information Science

## Skills

**Programming Languages:** Java, SQL, OCaml, XML, Javascript, HTML, CSS, Python, Haskell, C, Objective-C & Verilog

**Tools:** Databases (Oracle, MSSQL, MySQL, DB2, MongoDB), AWS (EC2), Git, Bash, Eclipse

**Mathematical Skills:** Logic & Proofs, Calculus, Abstract & Linear Algebra, Probability, Functional & Complex Analysis

**Languages:** Fluent in English, intermediate in Spanish, & beginner Arabic

## Personal Interests



Travel



Ultimate Frisbee



Problem Solving



Biking



Sound Design