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 data collection.

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.

UPenn Computer Science Department

Teaching Asst | 2014-2015

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

Hospital of UPenn Cardiovasular Surgery

Admin Assistant | 2011-2012

Responsible for sending faxes and letters to patients regarding their appointments, data entry, and other administrative duties to help the surgeons' assistants.

Personal Projects

Using Node.js, Jade, JavaScript and Python
Developed website to predict availability of study spaces at the University of Pennsylvania for senior design project (with the ZeroRPC, SciPy and SciKit-Learn frameworks).

Using Node.js, Jade, JavaScript, Mongoose & MongoDB
Created website similar to Facebook for class on databases, with users and ability to post/like/comment on photos/content with searching feature and NoSQL caching system.

Assisted with Curriculum
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.

Using Haskell
Built command-line version of Othello (playable with 1 or 2 players).

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

Education

University of Pennsylvania
Philadelphia, PA
BA, Mathematics
BSE, Computer Science
GPA: 3.18
J.R. Masterman High School
Philadelphia, PA
High School Diploma

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: Java, SQL, OCaml, XML, Javascript, HTML, CSS, Python, Haskell, C, Objective-C, Python, & Verilog (descending in familiarity)
Database Systems: Implementation of database systems from scratch and cloud storage using AWS.
Operating Systems: Linux/Unix, Mac/OSX, and Windows
Languages: Fluent in English, intermediate in Spanish, & beginner Arabic

Personal Interests

Travel · Ultimate Frisbee · Cooking · Biking · Music Production