Matthew Chiaravalloti

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Education

University of Pennsylvania
Bachelor of Science in Engineering in **Computer Science**, *3.08*
May, 2017

Coursework

Current:
- Internet and Web Systems
- Programming for the Web

Prior:
- Computer Org. and Design
- Database and Info. Systems
- Operating Systems
- Scalable and Cloud Computing
- Introduction to Algorithms
- Software Design/Engineering
- Programming Languages and Techniques I & II
- Intro to Comp. Architecture
- Intro to Front End Web Dev.

Skills

Languages & Frameworks:
Java, JavaScript, jQuery, CSS, HTML5, Node.js, Express.js, Spring Boot, React.js, SQL, Hadoop MapReduce, OCaml, C, Python, C++

Other Tools and Skills:
RESTful web service development, Android Development, git, Linux, AWS (EC2, DynamoDB, EMR, S3), Agile Software Development

Projects

School/Team:
Pennbook, Web App—NETS212 Final Project (http://52.90.42.125:8080/)
Study Buddy, Web App—CIS350 Project
Fync, Web App—PennApps X
FB Messenger Encryption, Chrome Extension—PennApps XII

Personal:
Common Actors and *Color Changer*, published Android Apps

Employment Experience

Intern Member of Technical Staff   May – August 2016
VMware, vIDM (Identity Manager)
- Develop a highly scalable, extensible service that allows vIDM to sync with cloud directory services
- Create a generic REST API for interacting with cloud directory services (i.e. Azure AD, Workday, etc)
- Build Azure AD implementation that supports the API

Head Teaching Assistant (TA)   Aug 2014 - Present
U. of Pennsylvania, School of Engineering and Applied Science
CIS-120: Programming Languages and Techniques I
- Head TA since January 2016:
  - Plan and lead staff meetings
  - Assist in training of new TAs
  - Coordinate grading and scheduling for TA staff
- Assist in teaching of functional and object-oriented programming in OCaml and Java
- Hold weekly office hours, lead weekly recitation
- Plan lab lessons, grade homework and exams, update homework assignments prior to release

Instructor   June – July 2015
iD Tech Programming Academy, Princeton University
Programming Labs 101
- Instructed 2-week sessions of the Programming Labs 101 course to high school students, class size of 8
- Introduced programming concepts to students
- Taught Java, C++, Python, JavaScript, HTML, and CSS; also introduced various IDEs

Web Developer   Jan - May 2015
The Daily Pennsylvanian, (U. of Pennsylvania Newspaper)
- Built special websites for featured stories such as the Penn Bracket and the Best of Penn 2015
- Wrote and embedded HTML, CSS, and JavaScript into stories on the newspaper's website

Information Center Specialist   Aug – Dec 2014
U. of Pennsylvania Residential Services, Gregory College House
- Worked as central service provider for resident and guest services

Interests
Rock Climbing, Hiking, Snowboarding, Movies, Sudoku