

# 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:

Android Development, git, AWS,  
Linux/UNIX, Agile Development,  
RESTful web service development

## Projects

### School/Team:

*Pennbook*, Web App—NETS212 Final  
Project (<http://52.90.42.125:8080/>)  
*Study Buddy*, Web App—CIS350 Group  
Project | *Fync*, Web App—PennApps X |  
*FB Messenger Encryption*, *Chrome*  
*Extension*—PennApps XII

### Personal:

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

## Employment Experience

### 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

### 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

### 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