Matthew Chiaravalloti

mattch@seas.upenn.edu
(201) 926-8279

mattchiaravalloti.github.io
github.com/mattchiaravalloti
linkedin.com/in/matthewchiaravalloti

Coursework

Current
- Internet & Web Systems
- Programming for the Web

Prior:
- Computer Org. & Design
- Database & Info. Systems
- Operating Systems
- Scalable & Cloud Computing
- Introduction to Algorithms
- Software Design & Engineering
- Programming Languages and Techniques I & II
- Automata, Computability, and Complexity
- Intro to Computer Architecture
- Intro to Front End Web Development
- Linux/Unix Skills

Skills

Languages & Frameworks:

Java, JavaScript, jQuery, HTML, CSS, Node.js, Express.js, React.js, Spring Boot, SQL, Hadoop MapReduce, OCaml, C, Python, C++

Other Tools and Skills:

Agile Software Development, RESTful web service dev and consumption, AJAX, git, Android Development, Linux, AWS: (*EC2, DynamoDB, EMR, S3*), IntelliJ, Eclipse, Vim

Interests

Rock Climbing, Hiking, Snowboarding, Movies, Cooking, Sudoku

Education

University of Pennsylvania

Bachelor of Science in Engineering in **Computer Science** *3.1*, cumulative May, 2018	Master of Science in Engineering in **Computer Science** *3.7*, in-major May, 2018

Minors: Mathematics, Classical Studies

Experience

Intern Member of Technical Staff — May – Aug 2016
VMware, vIDM (Identity Manager)
- Develop a highly scalable, extensible service that allows vIDM to sync with cloud directory services (i.e. Azure AD, Workday, etc)
- Create a generic REST API for interacting with cloud directory services and 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
- Plan and lead staff meetings; assist in training of new TAs; coordinate grading and scheduling for TA staff
- Assist in teaching of functional & OO programming in OCaml & Java
- Hold weekly office hours; lead weekly recitation; 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

Projects

School/Team:

Pennbook (http://52.90.42.125:8080/), *Co-Lead & Full Stack Developer*
- Facebook clone implemented using Node.js, Express.js, and AWS
- *NETS 212 Final Project*; visit link, sign up, and search for users!

Study Buddy, *Frontend Developer, CIS 350 Final Project*
- Web app with JavaScript frontend utilizing Google Maps API and jQuery

Fync & FB Messenger Encryption, *Frontend Developer, PennApps X & XII*

Personal:

Common Actors & Color Changer, *published Android Apps*