

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

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| Bachelor of Science in Engineering in Computer Science 3.1, cumulative May, 2018 Minors: Mathematics, Classical Studies | Master of Science in Engineering in Computer Science 3.7, in-major May, 2018 |
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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

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

Personal:

Common Actors & Color Changer, published Android Apps