

Matthew Chiaravalloti

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

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

Coursework

Current

- Advanced Programming
- Analysis of Algorithms
- Artificial Intelligence

Prior:

- Internet & Web Systems
- Programming for the Web
- Database & Info. Systems
- Networked Systems
- Operating Systems
- Computer Org. & Design
- Scalable & Cloud Computing
- Software Design & Engineering
- Big Data Analytics
- Intro to Algorithms
- Automata, Computability, and Complexity
- Intro to Computer Architecture
- Linux/Unix Skills
- Intro to Frontend Web Dev
- Ruby on Rails Web Dev
- Programming Languages and Techniques I & II

Skills

Languages & Frameworks:

- | | |
|---------------|---------------|
| ▪ Java | ▪ SQL |
| ▪ JavaScript | ▪ MongoDB |
| ▪ ES6 | ▪ Hadoop |
| ▪ React/Redux | ▪ MapReduce |
| ▪ Node.js | ▪ OCaml |
| ▪ Express.js | ▪ C |
| ▪ jQuery | ▪ Spring Boot |
| ▪ HTML/CSS | ▪ Python |
| ▪ Ruby/Rails | ▪ Go |
| | ▪ C++ |

Other Tools and Skills:

Agile, AWS (EC2, DynamoDB, EMR, S3), Linux, Bash, git, Vim, IntelliJ, Eclipse, Android dev, RESTful API dev

Interests

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

Education

University of Pennsylvania

Bachelor of Science in Engineering in Computer Science 3.21, cumulative May, 2018	Master of Science in Engineering in Computer Science 3.52, in-major May, 2018
Minors: Mathematics, Classical Studies	

Experience

Software Engineer Intern

May - Aug 2017

MongoDB, Stitch

- Before beta-launch in June, address dozens of frontend bugs
- After beta, full-stack work including implementing stack-trace style errors on the backend, updating the node.js driver, refactoring the frontend, and improving the frontend test harness

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 and training of new TAs; coordinate grading and scheduling for TA staff; maintain course infrastructure
- 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

Web Developer

Jan - May 2015

The Daily Pennsylvanian, U. of Pennsylvania Newspaper

Projects

School/Team:

Search!, Backend Developer & Frontend Designer, CIS 555 Final Project

- Google clone implemented using Java, Hadoop, Spark, and AWS

Pennbook, Co-Lead & Full Stack Developer, NETS 212 Final Project

- Facebook clone implemented using Node.js, Express.js, and AWS
- <http://52.90.42.125:8080/> 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 Cinema & Color Changer, published Android Apps