

Matthew Chiaravalloti

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Coursework

Current

- Networked Systems
- Big Data Analytics
- Ruby on Rails Web Dev

Prior:

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

Skills

Languages & Frameworks:

Java, JavaScript, jQuery, HTML, CSS, Node.js, Express.js, Ruby, Rails, 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 3.16, cumulative May, 2018 Minors: Mathematics, Classical Studies	Master of Science in Engineering in Computer Science 3.67, 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 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

- 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:

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