

Carolyn Vlach

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EDUCATION

University of Michigan

B.S. LS&A

Computer Science, Discrete and Algorithmic Methods & Spanish

April 2015

GPA: 3.8/4.0

EMPLOYMENT

MapQuest

Denver, CO

Software Engineer – Backend Search

October 2015

– Present

Member of a small and collaborative engineering team, working closely with product to design and develop new search APIs. Services written in Scala with Spray and Play routing, backends stored in Elasticsearch indices, and stacks hosted in AWS. Automation implemented with Jenkins, often utilizing Apache Spark via Amazon EMR. Focuses include performance optimization, dynamic relevance functions, and iterative process.

Contact: Jonathan Harahush – jonathan.harahush@mapquest.com

Computer Science Engineering

University of Michigan College of Engineering

Instructional Aid for EECS 183: Elementary Programming Concepts

August 2013 –

May 2015

Duties included preparing and leading a weekly hour-long discussion, holding office hours to assist students with assignments and understanding course concepts, creating projects, attending weekly staff meetings, grading examinations, and supporting course faculty.

Contact: Dr. Mary Lou Dorf – mdorf@umich.edu

Profitability of Hawaii

Honolulu, Hawaii

Web Development Summer Intern

June 2014 –

August 2014

Integrated and customized document signature / signature replay functionality from the company's existing mobile app into the company's web app. App was written in HTML and JavaScript and supported in Chrome, Internet Explorer, and Firefox.

Contact: Bill White – bwhite@poh.com

COMPUTER SKILLS

Languages:

Scala [highly proficient] • Java [proficient] • Ruby [proficient] • Bash [proficient] • C++ [proficient] • JavaScript [intermediate] • HTML, XML [intermediate] • Python [intermediate]

Frameworks / Utilities:

Elasticsearch • Logstash • Spray Routing • Play Framework • AWS – CloudFormation, Route53, EC2, EMR • Jenkins • Chef • Apache Spark • Gatling Load Testing • Datadog Metrics • Dashing Dashboards • Git

Coursework:

Data Structures and Algorithms • Foundations of Computer Science • User Interface Development • Computer Organization • Theory of Algorithms • Software Engineering • Web Databases and Information Systems • Intro to Machine Learning • Mobile App Development for Entrepreneurs

Personal Projects:

InBetween – Android app, used Google APIs • Team project • <https://play.google.com/store/apps/details?id=com.ma441.inbetween>

Tally – Android app • In progress • <https://github.com/vlachcj/tally>

Juncture – Web app, uses jQuery, Bootstrap, and various chart plugins • In progress • <https://github.com/vlachcj/juncture>