

# ANNA VILLANI

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## Summary

Currently pursuing a Masters in Computer Science and looking for full-time positions as a Software Engineer. My passion for coding grew out of realizing the endless possibilities for creating new experiences, pushing the boundaries beyond the present, and positively impacting every aspect of everyone's life.

## Education

University of Colorado Boulder - Boulder, CO

Expected May 2017

Master of Science in Computer Science

College of the Holy Cross - Worcester, MA

May 2015

Bachelor of Arts in Mathematics, Minor in Computer Science

## Experience

**Computer Experiences:** C/C++, Python, Bash, HTML/CSS/Javascript and Scala Programming; WEKA; Eclipse; Circle CI; Mocha; Nightwatch; WebdriverIO; Amazon Web Services; Google Cloud Platform; Databases; JQuery; Vagrant; Django; JIRA; Scrum; Sublime/Atom; vim. Code Portfolio can be found on: <https://github.com/anvi7924>

**Augur Inc.** - *Software Engineer*; Denver, CO

May 2016 - Present

Augur is a small startup building device recognition software. I've performed many tasks at Augur including:

- unit-testing, end-to-end testing, and integration testing on frontend and backend servers
- design browser-based testing framework for frontend server
- research and analyze Aerospike database usage on system to determine combinatorial complexity of database insertion -> unit and integration testing for database insertion
- research network usage of system on browsers to determine accurate net TTLs for various connection types (e.g. long lived vs short lived)
- create dynamic profiling tool to measure time and memory usage

**University of Colorado Boulder** - *Research Assistant*; Boulder, CO

August 2015 - May 2016

**The Space/Time Analysis for Cybersecurity** - DARPA : Developing new analysis techniques and tools for identifying vulnerabilities related to the space and time resource usage behavior of algorithms

Used Scala to develop tools for tracking the propagation of tainted inputs to particular program points, analyzed existing tools' potential to contribute to taint analysis, and collaborated on a weekly basis with UT Austin graduate studies to assign workload and track progress.

**College of the Holy Cross** - *Teaching Assistant*; Worcester, MA

September 2014 - May 2015

Introduction to Programming Course, C++

Assisted students with lab assignments to create functioning applications and taught fundamental topics of programming and graded lab assignments

**Commonwealth of Massachusetts Lifeguard** - Hull, MA

June 2013 - August 2015

40 hrs/week ensuring safety and satisfaction of patrons at oceanfront beach

**College of the Holy Cross** - *Aquatic Supervisor*; Worcester, MA

September 2013 - May 2015

6-8 hrs/week managing aquatic facility and ensuring safety of patrons

## Leadership and Activities

**Janssen Sports Leadership Center**

September 2012 - May 2015

Three-year long program to develop leadership skills in an athletic environment and learn how to apply these skills in a professional environment

**Sexual Assault Facts, Education and Response (SAFER)**  
2015

September 2013 - May

Raise awareness about the facts surrounding sexual assault and educate students how to be effective bystanders

**Holy Cross Varsity Women's Swimming and Diving Team**

September 2011 - May 2015

Team Captain

**University of Colorado Peer Mentorship Program**

August 2016 - May 2017

Mentor first-year graduate student throughout the year

## Honors

Women's Swimming and Diving Rookie Award and Outstanding Year Award

Pi Mu Epsilon Mathematics Honor Society