

Rita Zevallos

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EDUCATION

SWARTHMORE COLLEGE

BS IN COMPUTER SCIENCE

BS IN MATHEMATICS

Expected May 2015 | Swarthmore, PA

Cum. GPA: 3.6

WEST SPRINGFIELD HS

Grad. May 2011 | Springfield, VA

Cum. GPA: 4.2

SKILLS

PROGRAMMING

Languages:

Javascript • Python • Java • Ruby • HTML5 • CSS3 • C++ • C • MySQL •

Oracle • XML • C# • VB.NET • Bash

Frameworks:

Django • Rails • OpenGL • Android

Technologies:

Visual Studio

COURSEWORK

COMPUTER SCIENCE

Database Systems

Intro to Computer Systems

Data Structures and Algorithms

Computer Graphics

Natural Language Processing

Senior Conference on Mobile Health

MATHEMATICS

AP BC Calculus

Honors Several Variable Calculus

Honors Linear Algebra

Differential Equations

Modern Algebra |

Real Analysis |

Number Theory

Self-directed senior paper

EXTRACURRICULAR

In my free time, I take long bike rides, check out books about math from the library, write about math, go to weekend hackathons, think up ideas for art projects, and have conversations with people.

WORK EXPERIENCE

GRB, INC | SOFTWARE ENGINEERING INTERN

Summer 2014 | Alexandria, VA

- The web app for Government Retirement and Benefits, Inc. is a tool to allow government agency employees and HR to calculate retirement benefits. I worked on various small and medium-sized projects throughout the summer, including building a new User Manager, using Javascript and ASP.net for the front end, C# for the backend, Oracle and MySQL for necessary database changes, SourceVault for version control, and Visual Studio as a development environment.

MSRI UNDERGRADUATE PROGRAM | RESEARCHER

Summer 2013 | Mathematical Sciences Research Institute

- I worked in a team to research a special topic in algebraic combinatorics. In addition, I wrote Python scripts to generate data for our team, and together we wrote a paper on research findings for publication.

M-CUBED MATH RESEARCH PROGRAM | RESEARCHER

Summer 2012 | James Madison University

- I worked in a team of minority undergraduate students to analyze the game Mancala and several two-player and one-player variants, using linear algebra and game theory. I generated game trees using Python, and with the team wrote an academic paper on the findings.

PROJECTS

TRIGGER WARNING BROWSER EXTENSION | DEVELOPER

ongoing | Swarthmore, PA

- I'm building a browser extension with a team of Swarthmore students to identify and mark paragraphs that include potential PTSD triggers, using javascript, the Chrome extension API, HTML/CSS, natural language processing, and machine learning.

FOOD RECOGNITION APP | ANDROID DEVELOPER

ongoing | Swarthmore, PA

- For our Senior Conference project, my team is building an Android app that identifies foods from a photo from that day's cafeteria menu options, and displays nutritional information, using Java, Android Studio, web scraping, OpenCV for Android, computer vision algorithms, and machine learning.

BUSCANDOMARYLAND | BACKEND DEVELOPER

Summer 2014 | Washington, DC | <http://buscandomaryland.com>

- BuscandoMaryland is a tool to connect child migrants and their foster families with resources in the area. This project was started at the Hacklady Hackathon, and continued for several weeks over the summer. I contributed by building the back-end structure in Django for organization registration, as well as the form UI using asynchronous Javascript.