

# Holly Ham

✉ hollyham.cs@gmail.com

## EDUCATION

### UC SAN DIEGO

COMPUTER SCIENCE, B.S.

Expected June 2021 | La Jolla, CA

Provost's Honors 2017-2019

### ROCKLIN HIGH SCHOOL

HIGH SCHOOL DIPLOMA

Grad. June 2017 | Rocklin, CA

Top 2% of 2017 Class

## LINKS

 Github: // hollyham

 LinkedIn: // hollyham

 Website: hollyham.github.io

## SOCIETIES/GROUPS

Triton Software Engineering

Rewriting the Code Fellowship

Women In Computing

## COURSEWORK

### UNDERGRADUATE

- Data Structures & OO Design
- Discrete Mathematics
- Mathematics for Algorithms/Systems
- Computer Organization and Systems
- Advanced Data Structures
- Linear Algebra
- Design/Analysis of Algorithm
- Theory of Computation
- Intro to AI: Search&Reason
- Software Engineering (In Progress)

## SKILLS

### TECHNOLOGIES/LANGUAGES

Proficient:

Java • C • Python • HTML5 • CSS3

Familiar:

Azure Cosmos DB • C# • ASP.NET Core •  
Assembly • C++ • JavaScript • Swift •  
Mathematica •  $\LaTeX$

### TOOLS

Visual Studio • Photoshop CS6 • Git  
Vim • Command Line • Chrome DevTools

### OPERATING SYSTEMS

Linux • Mac OSX • Windows

## EXPERIENCE

### MICROSOFT | CORTANA AI&R - GEOSPATIAL

SOFTWARE ENGINEERING + PROGRAM MANAGEMENT INTERN

June 2018 - September 2018 | Bellevue, WA

- Wrote proposals and created two Cortana Skills leveraging LUIS natural language processing models, Azure Bot Service, and custom APIs.
- Automated collection of shapefiles and census data with Python scripts, reduced data collection time by 2 hours.
- Planned and developed custom APIs to streamline access to data stored in Elasticsearch and indexed in Azure Cosmos DB.

### HEWLETT-PACKARD ENTERPRISE | ARUBA NETWORKS

TECHNICAL INTERN

June 2017 - Aug 2017 | Roseville, CA

- Develop a low-cost live stream camera with a Raspberry Pi to securely monitor the status of the switches in the HPE labs, saving \$2,000 per employee annually.
- Created a UI on a password-protected Apache server using HTML, CSS, and JavaScript for users to access the live stream and control the camera's position.

## ACTIVITIES

### CSE TUTOR

TUTOR FOR CSE 11: INTRO TO JAVA

September 2018 - December 2018

- Co-led quiz review sessions, helped students with the logic, syntax, and OOP conceptual issues as they worked on the programming assignments.
- Graded programming assignments, attended weekly staff meetings.

### TRITON SOFTWARE ENGINEERING

SOFTWARE ENGINEERING ORGANIZATION | VP PROJECTS, PM, DEVELOPER

Developer: September 2017 - June 2018

- Pro-Bono technical and web development services for non-profits.
- Redesigned a website for volunteer harvester organization Harvest Crops by using Wordpress, HTML5, and CSS3.

VP Project + PM: June 2018 - Present

- Met with clients to scope out project, assigned project to PMs.
- Currently leading a team in creating a website for the Symphonic Student Association.

### WEBROOT CODING CHALLENGE

WEBROOT & UC SAN DIEGO JACOBS SCHOOL OF ENGINEERING

Participant: January 26, 2019

- Worked in a partnership to compete in a coding game using artificial intelligence coding.
- Placed in the top 4% out of over 165 teams.

### SDHACKS 2018

UC SAN DIEGO'S ANNUAL HACKATHON

Participant: October 12-14, 2018

- Worked in a four person team to develop an Android application that tracks items with expiration dates.
- Created the application in Android Studio, using Java to create logic behind the text input box, buttons, and list display.