

Holly Ham

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EDUCATION

UC SAN DIEGO

COMPUTER SCIENCE, B.S.

Expected June 2021 | La Jolla, CA
Provost's Honors 2017-2018

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](#)

COURSEWORK

UNDERGRADUATE

Intro to CS & OOP, Java
Data Structures & OO Design
Software Tools and Techniques Laboratory
Discrete Mathematics
Mathematics for Algorithms and Systems
Computer Organization and Systems
Advanced Data Structures (In Progress)
Probability and Statistics (In Progress)
Linear Algebra (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

- Created two Cortana Skills leveraging LUIS natural language processing models and custom APIs.
- Wrote proposal for projects, including identification of the problem, architecture, user pain points, and competitive analysis.
- Automated shapefile download and the collection of census data with two 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.
- Used Language Understanding (LUIS) and Azure Bot Service to create a conversational interface between the data and the user.
- Both projects are staged for production.

HEWLETT-PACKARD ENTERPRISE | ARUBA NETWORKS

TECHNICAL INTERN

June 2017 - Aug 2017 | Roseville, CA

- Worked on a team of to develop a low-cost live stream camera with a Raspberry Pi to securely monitor the status of the switches in the HPE labs.
- Designed an overhead, motor controlled wire mount to enable the camera to move non-intrusively along the aisles of switches.
- Saved the company approximately \$2,000 per employee annually.
- Created a UI on a password-protected Apache server using HTML, CSS, and JavaScript to allow users to access the live stream and control the camera's position from HPE offices throughout the country and abroad.

ACTIVITIES

TRITON SOFTWARE ENGINEERING

SOFTWARE ENGINEERING ORGANIZATION | DEVELOPER

Years Active: 2017 - Present

- Pro-Bono technical and web development services for non-profits.
- Participate in weekly team meetings and help organizing technical workshops and events.
- Redesigned a website for volunteer harvester organization Harvest Crops by using Wordpress and HTML5 and CSS3.

WIC PROGRAMMING COMPETITION

WOMEN IN COMPUTING EVENT

December 2017 and March 2018

- Pair programming competition to solve a series of challenges on Hackerrank in two and a half hours or less.
- Winter 2018: Placed 17th out of nearly 166 participants.
- Fall 2017: Placed 34th out of nearly 176 participants.