

Holly Ham

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EDUCATION

UC SAN DIEGO

COMPUTER SCIENCE, B.S.


Expected June 2021 | La Jolla, CA

Provost's Honors 2017-2019

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
- Intro to AI: Statistical
- Teaching in Computing
- Software Engineering

SKILLS

TECHNOLOGIES/LANGUAGES

Proficient:

Java • C++ • C • Python • HTML5 • CSS3

Familiar:

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

TOOLS

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

OPERATING SYSTEMS

Linux • Mac OSX • Windows

EXPERIENCE

TESLA | ENERGY

SOFTWARE ENGINEERING INTERN

September 2019 - Present | Palo Alto, CA

MICROSOFT | AZURE STORAGE - INDEX MANAGEMENT

SOFTWARE ENGINEERING INTERN

June 2019 - September 2019 | Redmond, WA

- Analyzed performance and size savings between ML indexes and traditional B+ tree indexes.
- Automated tree serialization with C++ and reduced data compilation time to a few minutes.

MICROSOFT | CORTANA AI&R - GEOSPATIAL

PROGRAM MANAGEMENT + SOFTWARE ENGINEERING 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

- Developed a low-cost live stream camera with a Raspberry Pi to securely monitor the status of network switches, saving \$2,000/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

CSE 11: INTRO TO JAVA, CSE 30: COMPUTER ORG. AND SYSTEMS

Fall 2018 - Spring 2019

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

TRITON SOFTWARE ENGINEERING

SOFTWARE ENGINEERING ORGANIZATION | VP PROJECTS, PM, DEVELOPER

VP Project + PM: June 2018 - Present

- Met with clients to scope out projects, assigned projects to PMs.
- Lead a team in creating a website for the Symphonic Student Association using HTML5, CSS3, JavaScript, and PHP.

Developer: September 2017 - June 2018

- Redesigned a website for volunteer harvester organization Harvest Crops by using Wordpress, HTML5, and CSS3.