

# Sarah Wang

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## EDUCATION

Graduation May 2018     **University of Texas at Austin, B.S. in Computer Science**  
Turing Scholar/Computer Science Honors Program  
**Overall GPA: 3.77/4.0, CS GPA: 3.55/4.0**

## WORK EXPERIENCE

**Fall 2017**  
Austin, TX     **Vast, Data Science Intern**

- Compare the quality of different algorithms in predicting when a vehicle will sell
- Develop classification models for various types of errors in vehicle description
- Investigate fraud and error in dealer descriptions of vehicles for sale

**Summer 2017**  
Redmond, WA     **Microsoft, Database Systems Intern**

Implemented a SQL Azure dev-ops tool used to troubleshoot distributed databases

- Reproduces distributed query plans for a customer database on a test cluster or in a simulation environment in order to assess and correct issues
- Created a PowerShell command line interface that invokes the tool mentioned above

**Fall 2016 - Spring 2017**  
Austin, TX     **Applied Research Labs, C++ Developer**

The sonar development division at ARL conducts research on sonar systems and designs, which can be found on submarines and surface ships used by the US Navy and Special Forces

- Designed and implemented the C++ back-end of an application that fetches objects from and modifies objects in large data stores containing mission data.
- Prototyped a data store utility compatible with the application back-end that supports creation and migration of data stores and import of legacy data stores. Supports MySQL and SQLite.

**Summer 2016**  
Redmond, WA     **Microsoft, Intern**

Added a new feature to Eligibility Portal, a service used by over 100,000 non-profit organizations to obtain credits and discounts towards Microsoft software

- Implemented the SQL/C# back-end and web UI of the Azure Cloud Services offering, a service that registers non-profits for Azure and gives them credits towards their subscription

## SELECTED PROJECTS

**SushiTab**  
(hackathon project)     A JavaScript Google Chrome extension that visualizes a user's web history in the New Tab Page in the form of proportionally sized bubbles.

**Reddit + Messenger Bot**     A bot that periodically parses the reddit front page and sends a custom private message to each subscriber through Facebook Messenger containing posts filtered to match their preferences.

**Alarm Me!**  
(hackathon project)     A universal Windows app that compares a user's historical health data to heart rate data collected from their Microsoft Band and sends alerts when abnormalities are detected.

## TECHNICAL SKILLS

**Proficient**     Java, C++, Bash  
**Familiar**     Python, SQL (MySQL, SQLite, SQL Server), C#, C, JavaScript

## COURSEWORK

*\*denotes honors*     Data Structures\*, Computer Architecture\*, Operating Systems\*, Algorithms\*, Programming Languages\*, Data Mining\*, Computer Networks