

# HaiTao Zhang

🌐 [www.github.com/htztomic](https://www.github.com/htztomic) | ✉ [h Zhang12@berkeley.edu](mailto:h Zhang12@berkeley.edu) | ☎ (415) 810 0626 | 🏠 2024 Durant Ave, Berkeley, CA 94704

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## Technical Skills

**Proficient Programming Languages:** Java, Python, C++, Matlab

**Familiar Programming Languages:** JavaScript, C, HTML/CSS, Swift, UML

**Toolset:** Spring Boot, XCode, NumPy, Rest Assured, Jupyter Notebook, Android Studios, PyTorch

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## Education

EXPECTED GRADUATION: MAY 2020

**Bachelor of Science in Electrical Engineering and Computer Science/ University of California, Berkeley**

Relevant Coursework: Data Structures, Computer Architecture, Linear Algebra, Multivariable Calculus

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## Work Experience

MAY 2018 – AUGUST 2018

**Software Engineering Intern (Java, Python) / Naval Air Warfare Center Weapons Division, Point Mugu, CA**

- Used Rest Assured to write maintainable and scalable JUnit tests for multiple RESTful API endpoints.
- Created custom Python functions using Smartbear's TestComplete software to test for functionality and to minimize potential errors
- Collaborated with Military personnel to understand specific services that they would prefer to have during their mission

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## Personal Projects

SEPTEMBER 2018

**Restaurant Recommendation (Python) / Structure and Interpretation of Computer Programs Course, Berkeley, CA**

- Used the k means machine learning algorithm to generate a recommendation using the user's history of restaurant ratings
- Created a linear regression algorithm to give the user a better recommendation rather than just using clusters
- Integrated function and data abstractions methods for code size reduction and better abstraction of Yelp's dataset

APRIL 2018

**NBA Player Statistics (Java, Android Studios) / Santa Barbara, CA**

- Utilized RecyclerView adapter to efficiently bind a JSON formatted data set to an item layout that displayed within the RecyclerView
- Implemented Java's Preferences API to save the user's application configuration and restore it when application is reopened
- Created a Structural UML diagram to effectively map out the classes/attributes associated with each other and to ensure decoupling.

OCTOBER 2017

**International Collegiate Programming Competition (C++) / Association for Computing Machinery, Riverside, CA**

- Utilized efficient coding techniques such as memoization for decreasing the run time and complexity of a program
- Implemented specialized algorithms such as the Sieve of Eratosthenes and Quicksort to generate faster outputs
- Worked as a team to break down each individual problem and come up with unique methods of solving it.

JANUARY 2016

**Food Temperature Reading (Swift, XCode) / University of California, Santa Barbara Hackathon, Santa Barbara, CA**

- Built an iOS application that used the FLIR ONE thermal camera to calculate the temperature of a specific poultry
- Used FLIR's API to integrate their camera to our application to allow efficient image reading for calculation
- Developed an algorithm to calculate the temperature of a 4 by 4 pixel frame in Fahrenheit