**ALAN Z. CHEN**

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**E D U C A T I O N**

**University of California, San Diego**

B.S. Computer Science San Diego, CA

Cumulative GPA: 3.3/4.0 Expected Graduation: June 2018

**Notable Courses:** Data Structures, Algorithms, Database Systems, Programming Languages/Paradigms, Computability

Theorem, Operating Systems, Computer Architecture, Artificial Intelligence, Data Science

**S K I L L S**

**Languages & Frameworks:** Java, JavaScript, C++, C, Python, Perl, C#, Node.js, AngularJS, MongoDB, MySQL, ASP.net

**Tools:** gdb, Make, Linux, jdb, Junit, Git, Vim, Android Studio, Visual Studio

**E X P E R I E N C E**

**Hologic Inc.** San Diego, CA

Software Engineering Intern *Jun 2016 – Aug 2016*

* Created a web-based lab tool that displays medical test results in tables and graphs with Node.js, C#, MongoDB, and Google Charts
* Researched pros/cons of various client-side and server-side architectures (JavaScript, AngularJS, Express.js) for cross-platform lab tool integration
* Developed tools in C# to identify where spikes in hindering activity occur when running the testing machines

**EMC Corporation** Beijing, China

Software Intern *Jun 2015 – Aug 2015*

* Created automated test scripts for localization in Perl
* Parsed various file types and converted them to XML

**Delta Product Corporation** San Diego, CA

Software Intern *Oct 2013 – Mar 2013*

* Created Android applications to work with geolocation data and GPS functions to integrate with company tools

**P R O J E C T S**

**Broommates** | Android*Oct 2015 – Dec 2015*

* Developed an application that distributes responsibilities to members of an apartment with Java, Android Studio, JavaScript, Python, Flask, Django, and MongoDB
* Implemented a responsive front-end with Material design in jQuery, JavaScript, HTML, and CSS

**Autocomplete** | C++*Apr 2016 – May 2016*

* Used a Multiway Trie to implement a dictionary with AutoComplete with O(L) find and autocomplete, where L is the length of the longest word
* Stored relations between nodes to decrease autocomplete time with a Priority Queue

**Hollywood Connector** | C++*May 2016 – May 2016*

* Finds the closest connections between two actors or actresses using Dijkstras and Union Find
* Analyzes actors and actresses to find the earliest years that people became connected

**Unit Interpreter**| Java*May 2015 – Jun 2015*

* Created an interpreter to parse Unicalc, a language for describing measurements in various units
* Normalized ambiguous units and inputs to find the best approximation for given calculations
* Built a tokenizer to convert various input types to relevant tokens specific to Unicalc
* Integrated Test Driven Development processes to promote efficient production in Java

**Huffman Encoding**| C++*May 2016 – Jun 2016*

* Implemented a compressor and decompressor with Huffman Compression using a Binary Trie

**I N V O L V E M E N T**

Taiwanese American Student Association, Chinese American Student Association, Badminton, Ping Pong, Tzu Ching