Christian Cheng
Software Developer

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EDUCATION

University of California, San Diego

B.S. Computer Science, Provost's Honors, GPA: 3.67   Graduation: June 2019

Jacobs Scholar
- Received the Jacobs Engineering Scholarship, a full-ride merit scholarship awarded to about ten students each year for academic excellence and demonstrated leadership

Regents Scholar
- Received the Regents Scholarship, a four-year merit scholarship awarded to top students at UC San Diego

EXPERIENCE

Amazon Lab126 - Software Engineering Intern   June 2018 – Present
- Interning on the Alexa Speech team, developing tools to assist in training Alexa ML data models
- Developing a full-stack web application to provide metrics reporting and automated data visualizations for S3 datasets
- Implementing a scheduled web service to automatically process and characterize Alexa training data

Teradata - Software Engineering Intern   June 2017 – Dec 2017
- Implemented a Linux tool to simultaneously update the BIOS firmware on multiple connected servers, increasing field engineer productivity 100% by allowing engineers to update entire systems at once
- Developed a database tool to simplify Teradata inventory tracking by aggregating product information from multiple sources, reducing report generation time by 97% and saving 8 hours of manual tracking time per week
- Refactored and implemented new features for a server memory and CPU stress testing application using C++

Cisco - Software Engineering Intern   Jan 2017 – June 2017
- Developed a product recommendation engine to predict which products a customer would be most likely to purchase
- Applied cluster analysis to customer firmographics to detect similarities in purchasing patterns between customers
- Implemented user-based collaborative filtering to create predictions based on the behavior of similar customers
- Used R, dplyr, and Python to generate exploratory hypotheses on hundreds of millions of rows of data
- Created a recommender system to identify target products and increase sales volume and efficiency

PROJECTS

WaitLess - *JavaScript, Node.js, MongoDB, Heroku, Gulp, Travis CI, Mocha, Code Climate, Nightwatch.js, JSHint, apiDoc*
- Developed an appointment management and check-in system for companies to manage visitors and appointments
- Designed a user interface to connect JavaScript frontend elements to a MongoDB database
- Applied best practices in software engineering by utilizing continuous integration, version control, test automation, extensive documentation, and code linting

Ziconnect - *AngularJS, Node.js, Express.js, JavaScript, Firebase, Heroku, HTML, CSS*
- Created an event planner web application that allows users to create and organize events, potlucks, and carpools
- Implemented as a single-page application using Express.js, connected to a Firebase database
- Built custom application frontend using Node.js and JavaScript
- Recognized as a Most Significant Contributor to my team among a class of 400+ students

Kenbot - *jQuery, Python, Heroku, Flask, HTML, CSS*
- Developed a web game modeled after the popular game "20 Questions"
- Identifies the person a user is thinking of by asking the user a series of yes/no questions
- Implemented a decision tree algorithm in Python to identify the most probable answer based on the user's input

SKILLS

Frontend: HTML 5, CSS   **Languages:** C++, Java, Python, JavaScript   **Other:** Unix, Heroku, AWS Tools, UI Design