

Christian Cheng

Software Developer

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EDUCATION

University of California, San Diego

B.S. Computer Science

Expected Graduation: June 2019

Cumulative GPA: 3.60 / 4.00

EXPERIENCE

Teradata | *Software Engineering Intern*, San Diego, CA.

Jun 2017 – Present

- Implemented a Linux utility to simultaneously update the BIOS firmware on multiple connected servers, enabling field engineers to update entire server networks at once, instead of updating each server individually
- Used C++ to update and refactor StressAppTest, a Linux tool used to stress test the memory and CPU components of servers
- Released an updated version of StressAppTest that is now pre-installed on every server shipped by Teradata and used company-wide for server maintenance and testing
- Developed an Oracle database tool in Java to generate specialized inventory reports for Teradata products, reducing report generation time by 97% and saving 8 hours of manual tracking time per week
- Improved the accuracy of product inventory reports, preventing thousands of dollars in lost revenue from unsold parts

Cisco | *Software Engineering Intern*, San Diego, CA.

Jan 2017 – Jun 2017

- Developed a recommendation engine for Cisco sellers to predict which product a customer is most likely to purchase
- Used R, dplyr, and Python to perform exploratory analysis on hundreds of millions of rows of data across 18 tables
- Applied market-basket analysis to construct an algorithm that uses historical data to predict customer behavior
- Implemented user-based collaborative filtering to identify similar customers and recognize similarities in purchasing patterns
- Used the CRISP-DM data science methodology to take the project from a business problem to a working data model
- Gave presentations of our final model to technical directors at Cisco for integration into company-wide sales operations

HONORS

Jacobs Engineering Scholarship

- Received a full-ride merit scholarship to UC San Diego, covering the full cost of college for 4 years
- Chosen as one of 14 Jacobs Scholars, representing the top 0.03% of students at UC San Diego annually

Regents Scholarship

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

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
- Linked customer appointments with automatic SMS text message and phone notifications
- Implemented a Facebook Messenger chat bot for customers to create and check on their appointments
- Simulated a real-world software engineering environment 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, and linked to a backend database using Firebase
- Integrated user accounts with Google Authentication to provide access to social features
- 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
- Developed an algorithm in Python to scrape existing data and identify the closest-matching person to the user's answers

SKILLS

Frontend: HTML 5, CSS

Languages: C++, Java, Python, JavaScript

Other: UNIX, Git, Heroku, Grails, Travis CI