

CHRISTOPHER CAI

WORK EXPERIENCE

March/15 – Sep/16 **Software Engineering Intern**
La Jolla, CA Sansay Inc.

- Maintain and update product GUIs using HTML5, Javascript, JSP, JQuery
- Work with Sansay's Engineering team to improve both their award winning Session Border controller interface and Real Time Operations Management Engine(ROME) product lines.
- Responsible for backend integration of new features, using JDBC and MySql
- Became familiar with database schemas for product lines, modify existing DB structures and add new configurations as requested
- Contributed to ROME local GUI and remote SOAP interface for statistic reporting and collection

June/15 – Sep/15 **Software Engineering Intern**
Sunnyvale, CA Finisar Corporation

- Implemented database-centered Python intellisense code completion system in C# for company's custom IDE
- Developed python script parser to automate the task of uploading and organizing R&D python test libraries and the functions and classes included
- Worked independently, and completed project with minimal assistance, did lots of own research and testing
- Project will be integrated into R&D departments in Sunnyvale, Shanghai, and Singapore

PROJECTS

Sept/15 – April/16 **Micromouse Competition**
La Jolla, CA UCSD IEEE

- Work with EE, CE, and ME students in collaboration project to build an autonomous car or "mouse", which will traverse a maze and concurrently map and optimize its pathing, aiming for fastest maze traversal
- In charge of PID controller code, maze traversal algorithm, as well as dynamic mapping and optimizations
- Develop class organization to integrate sensor and motor code together
- Wrote code in C++ to run off Arduino
- Part of 5 member team

EDUCATION

2013 – 2017 **B.S. Computer Science**
University of California, San Diego
Major GPA: 3.608
Expected Graduation: Winter 2017

References: available upon request

SKILLS

Proficient

Java
MySQL
C++
Javascript
HTML/CSS
jQuery

Prior Experience

C
Python
PHP
MatLab
C#
Haskell
Ocaml
XML
JSON
JDBC
Apache

Tools

Git/Mercurial
GDB
Selenium
Valgrind

METHODOLOGY

Agile Development

INTERESTS

Front End Development

Back End Development

User Experience

Web Server Applications