CHENG-LIANG YU

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EDUCATION

University of California, Irvine   Irvine, CA

M.S. in computer science, GPA: 3.63   Sep 2018 – Present (Expected Graduation Date : Jun 2020)

- Selected Coursework: Database Management, Distributed System, Parallel Programming

National Chiao Tung University   Hsinchu, Taiwan

B.S. in Computer Science, GPA:3.63   Sep 2013 – Jan 2017

- Selected Coursework: Data Structure, Algorithms, Operating System, Software Engineering

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EXPERIENCE

Software Engineering Intern @ TomTom, Inc (Taipei, Taiwan)   July 2019- Present

- Developed a CI/CD scripted Jenkins pipeline programmed in Groovy and integrated Jenkins with Xray.
- Implemented customized pipeline features tracked with JIRA and Git version control.
- C++ development on Product team for TomTom's GPS device.
- Validated data sent from navigation kit to view kit, enhanced routing manager's functionalities.
- Used Google Test framework (GTest, GMock) for C++ to build unit tests for Qt user interface.

PROJECTS

Relational Database Management System   Spring 2019

A database management system implemented by C++ (https://github.com/nuslarry/cs211-RDBM)

- Implemented key modules including Paged File Manager, Record-Based File Manager, Index Manager, Relational
  Manager using unclustered B+ tree index, and query engine.
- Supports basic SQL operations including Selection, Projection, Joins, and Aggregate operations.
- Tech Stack: C++, GDB, Valgrind, Eclipse

Real-Time Chat Room Application   Fall 2018

A web based real time chatting application (https://mead-node-chatapp.herokuapp.com/)

- Supports bi-directional communication between web clients and servers by leveraging express.js and socket.io.
- Supports real time location sharing using HTML geolocation tool. Performed unit tests with Jest.
- Tech Stack: NodeJS, Express.JS, Jest

Calendar Application   Fall 2017 - Spring 2018

A Java based calendar application (https://github.com/CS2103JAN2017-T11-B3/main)

- Supports agenda planning with functionalities including ranked by priority, recurring event and customized event search.
- Independently designed and implemented user interface with JavaFX.
- Created test cases and synchronized the project with Travis CI. Increased the test coverage from 70% to above 90%.
- Tech Stack: Java, JavaFX, Travis CI

SKILLS

- **Programming Language**: C++, Python, Java, JavaScript, HTML, NodeJS, PHP
- **Tool/Framework**: Git, Jenkins, Groovy, Eclipse, GTest, GDB, Valgrind, QT, JavaFX, MATLAB, Laravel
- **Platform**: Unix, Linux, MacOS

HONORS

Dean's List x 1 (Fall 2015 @National Chiao Tung University)