Gloria Chen

gj-chen.github.io
510-289-1555 | gjchen@ucdavis.edu | 18803 Mt. Jasper Dr. Castro Valley CA, 94552

Skills

Languages : C, C++, Java, R, HTML & CSS, Swift, SQL
Softwares & Databases : Git, Vim, GDB, Android Studio, Xcode, PostgreSQL
API & Frameworks : Bootstrap, Cocoapods

Education

B.S. Computer Science
University of California, Davis
March 2016

Coursework

Data Structures	Operating Systems	Database Systems	Linear Regression
Algorithm Design	Theory of Computation	Computer Networks	Statistical Analysis and Probability

Experience

- **Undergraduate Researcher, University of California, Davis** *June - August 2015*
  - Conducted study analyzing 7.5 million births challenging the assumption low birth weight causes infant mortality
  - Developed multivariate linear regression model analyzing the predictability in determining newborn health/survival
  - Used statistical analysis methods such as multivariable linear approximation, box-plots, and curve normalization to determine the accuracy of research and conclusions
- **Tutor, UC Davis Computer Science Club** *March - June 2014*
  - Taught C programming language concepts and Unix tools (ViM, Make, GDB)
  - Held weekly one-on-one and group tutoring sessions and answered coursework questions through email
  - Coordinated with team of 14 tutors to host midterm and final exam review sessions
  - Adapted teaching style to fit individual needs and developed supplementary study aids to facilitate understanding of application development

Projects

- **7 Minute Workout** | *Swift, Xcode, Cocoapods, Youtube API* *June - August 2015*
  - Developed iOS app that loads series of exercises consecutively with countdown timer, video, and text description
  - Youtube integration allows video playback
- **Breakout** | *CUSP Assembly Language* *July 2015*
  - Created an emulation of the popular Atari game Breakout
  - Features include fully directional paddle, game pause, timer, sound effects
- **Mi2U** | *Android Studio, PostgreSQL, Google Maps API* *March - June 2015*
  - Developed Android application allowing users to coordinate parcel delivery times
  - Locally hosted server and database records user information and current locations
  - Utilizes Google Maps to calculate shortest delivery routes and times
- **Bike Sharing Data Analysis** | *R* *March 2015*
  - Performed regression analysis on ridership data to determine factors affecting total number of monthly bike rentals in Irvine, CA
  - Developed regression model by sorting and querying data in dataset removing negligible data variables
  - Used confidence intervals, interaction terms, k-Nearest-Neighbor algorithm to test result accuracy
- **Travel and Transportation Pattern Analysis** | *C++, PostgreSQL* *December 2014*
  - Create database schema for NHTS & EIA datasets loading data into PostgreSQL database using C++
  - Calculated monthly percentage of transportation CO2 emissions attributed to household vehicles (3/2008 - 4/2009)
  - Calculated plugin hybrid vehicle related CO2 emission changes over duration of survey