Gloria Chen

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Skills

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

Education and Coursework

Computer Science, University of California, Davis **March 2016**

Data Structures	Operating Systems	Database Systems	Regression Analysis
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**
  - An emulation of the popular Atari game Breakout featuring 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