Haozhe Gu

Student

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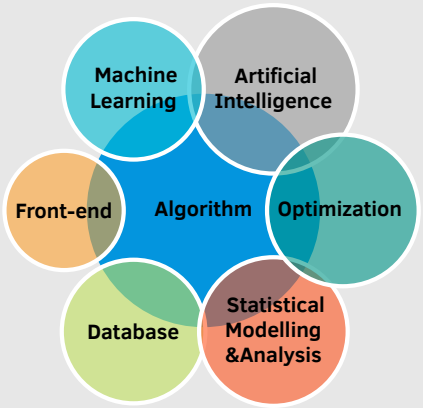
Skills



Interests

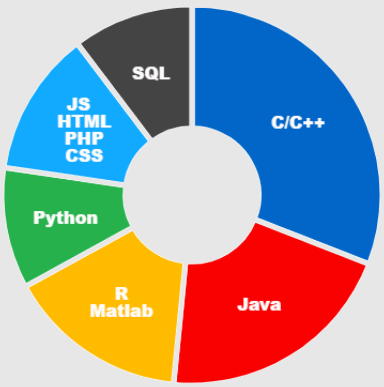
Data Science

Artificial Intelligence

Software Engineering

Web Development

Languages



Education

Expected 2018 - 2019 **Incoming MS, Computer Science** — University of Southern California
Track: Data Science

2013 - 2017 **BS, Computer Science**
BS, Applied Statistics — University of California Davis
GPA: 3.71/4

Internship

Jun 2015 - Aug 2015 **Front-end Web Development** — Guess Company

- Email address regular expression, pixel matrix debugging and Google tag manager.
- Console applications sending automated feeds to professional Analytic using C++ and SQL.
- Automated reports generator using SQL and Telerik Report.

Experience

Apr 2016 - Jun 2016 **Database Implementation** — University of California Davis

- Implement database that support parse tree, rewrite rules and SQL command like select, insert, create, group by, order, update etc.…
- Optimize Query speed by b-tree index and Select among Nested loop join, hash join and index join based on Query Statistics.
- Support large data execution (millions of rows) using concepts of on-disk b-tree, blocks.

Oct 2016 - Dec 2016 **Machine Learning** — University of California Davis

- Gender Recognition by Voice using SVM/Logistic/ANN(Code from scratch)/CART(R package). Resulted in 98% accuracy
- Make use of Gradient Descent. Audio files prepossessing, feature extraction by R package.

Oct 2016 - Dec 2016 **Statistical Data Science** — University of California Davis

- Information retrieval from data frames, APIs and Web HTML/XML using R.
- R Project about relationship among Real estate pricing, crime types & rates and area effects using data visualization, statistical analysis and information retrieval techniques.

Jan 2017 - Mar 2017 **Artificial Intelligence** — University of California Davis

- Optimized Path Finder for mountain climbing using A Star algorithm. Create different Heuristic functions for distinct cost functions.
- Create adversarial AI for the game Connect four. Apply mini-max searching, alpha-beta pruning and heuristic evaluation functions.
- Face recognition using Convolution Neural Network (CNN).