

ANDREW WANG

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EDUCATION

California Institute of Technology

Bachelor of Science Computer Science 2019

GPA: 4.0 | National Merit Finalist | Dan Broida/ Sigma Aldrich Scholar

EXPERIENCE

Bank of America Merrill Lynch

Global Technology Analyst

Charlotte, NC

Jun 2017 to Aug 2017

- Integrated management level approval requirements with Ariba procurement software in Java and Python to handle \$13 billion in money transfers from 34,000 catalog and punch-out vendors per year
- Developed a full-stack application, a UI wrapper for the Ariba Integration Toolkit, that facilitates data transfer of master and transactional data between the Ariba system and the bank's JDBC-based back-end system

Northrop Grumman

Decision, Support, and Targeting Software Developer

Hollywood, MD

Jun 2016 to Dec 2016

- Implemented new features in C# for Precision Guided Munitions Planning Software per request of US Navy and Air Force
- Generated unit testing classes using mock and stubs to eliminate testing dependencies
- Administered and contributed to weekly code reviews and daily team SCRUMs in accordance with agile development

SKILLS & COURSEWORK

PROGRAMMING: Python, C++, MySQL, C, Java, C#, R, OCaml, Bash, Unix

COURSEWORK: Data Science / Machine Learning, Databases, Algorithms, Data Structures, Programming Languages, Networks, Functional Programming, Statistics

PROJECTS

QuickAir – Predicting Flight Delays and Cancellations

Mar 2017 to Jun 2017

- Used random forests, Naïve Bayes, KNN to classify cancellations with 98.6% accuracy, delays with 83.43% accuracy
- Regressed on delay times to get a MAE of 19 minutes

Shakespearean Sonnet Generation

Mar 2017 to Mar 2017

- Applied a Hidden Markov Model to learn patterns in Shakespeare's sonnets to generate new sonnets with rhyme and rhythm

Sudoku Game and Solver

Dec 2016 to Jan 2016

- Designed GUI, interface, and backtracking algorithm to play and solve Sudoku

Netflix Competition - Predicting Movie Ratings

Mar 2017 to Jun 2017

- Implemented KNN, RBM, SVD to achieve RMSE of 0.86, 8.82% better than Netflix' Cinematch

Predicting Student Performance

Oct 2017 to Dec 2017

- Used random forests to enable educators and schools early detect students at risk for failure.
- Generated visualizations showing potential effects of alcohol on academics using seaborn

ACTIVITIES

NCAA Men's Basketball

Varsity Member

Oct 2015 to Mar 2017

- Featured in November 2015 issue of Sports Illustrated magazine
- Southern California Intercollegiate Athletic Conference (SCIAC) All-Academic Team

California Institute of Technology Dean's Office

Dean's Tutor

Sep 2016 to Current

- Tutored in Python, C++, machine learning, OCaml