

Tiera Lee

DATA ANALYST

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Data analyst with experience in software development and technical communication. Lived in Asia for two year working and studying in multinational environments. Experience in applying machine learning and statistical modeling to real world data, such as developing a 20 year economic forecast model.

Education

Georgia Institute of Technology

Atlanta, GA

BACHELOR OF SCIENCE IN COMPUTER SCIENCE WITH HONORS

Dec 2017

- **Concentrations** Modeling and Simulation, Media
- **Faculty Honors** 4.0 Semester — 1 Semester

Chinese University of Hong Kong

Hong Kong, China

FALL SEMESTER ABROAD

Aug 2015 - Dec 2015

- Fall 2015 Benjamin A. Gilman International Scholar

Technical Skills

- Languages** (Proficient) Python, R, SQL, Javascript, Matlab (Familiar) Java, C, D3.js, Angular.js, Markdown, HTML5, CSS
- Tools** Jupyter Notebook, Scikit-Learn, Pandas, Tableau, MySQL, MongoDB, Agile, Git, Jira, UNIX Commands, Android Studio, Ionic, Linux, Windows, Mac OS
- Coursework** Machine Learning, Information Visualization, Data Structures, Statistical Analysis, Design and Analysis of Algorithms

Experience

National University of Singapore Lee Kuan Yew School of Public Policy

Singapore

RESEARCH ASSOCIATE - DR. YOU-NA LEE

Mar 2018 - PRESENT

- Project: Measure design novelty with patent based indicators
- Created quantitative measure of innovation in US design patents from over 500,000 patents (Python)
- Analyzed patent trends over a 35 year period showing increased design activity in technological industries (Python, Pandas)
- Documented methods of data collection and analysis for draft of academic paper

National University of Singapore School of Computing

Singapore

VOLUNTEER RESEARCH ASSOCIATE - DR. YE WANG

April 2018

- Project: Create ensemble of virtual instruments played by hand gestures on Samsung smartwatches
- Wrote project proposal that outlined project requirements and goals for team
- Modified experimental time-series analysis algorithm that predicts real-time, continuous arm gestures (C, Python)
- Conducted literature review of machine learning, digital signal processing, and music therapy to gain technical background

Georgia Tech Research Institute

Atlanta, GA

RESEARCH INTERN

May 2017 - Feb 2018

- Developed 20 year economic forecast model to predict market demand of materials across the US on a small team (R)
- Created interactive data visualizations and dashboards for monitoring price indices and determining outlier performance (Tableau)
- Major contributor to development of database in MEAN stack web application (MongoDB)
- Applied machine learning algorithms to child welfare data to predict patient outcomes (Python, Sci-kit learn)

Georgia Institute of Technology School of Civil and Environmental Engineering

Atlanta, GA

UNDERGRADUATE RESEARCH ASSISTANT - DR. YI-CHANG TSAI

Aug 2016 - Dec 2017

- Project: Develop smart-city infrastructure analysis toolkit for Georgia Dept. of Transportation
- Lead multidisciplinary research sub-team of 4
- Developed efficient algorithm to provide quantitative analysis of pavement rutting (Matlab)
- Developed interactive GUI to determine mean texture depth of 3D pavement scans (Matlab)

Eaton Corporation

Peachtree City, GA

SOFTWARE ENGINEER INTERN

May 2016 - Aug 2016

- Developed, tested, and internationalized code for hybrid-mobile application to configure commercial lighting (Angular.js, Ionic)
- Created user stories and UI mockups that directed development (Jira)
- Supported accelerated development by 20%