

Colin Jiang

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Education

Emory University, Atlanta, GA

May 2020

Bachelor of Science, Computer Science and Mathematics

GPA: 3.94/4.00

Courses: Data Structures & Algorithms, Artificial Intelligence, Machine Learning, Computer Security, Database Systems, Data mining, Systems Programming, Discrete Structures, Linear Algebra, Multivariable Calculus, Probability & Statistics

Honors: *Chair's Award for Achievement, Phi Beta Kappa, Dean's List*

Skills

Coding Languages: Proficient in Python, Java, SQL; Familiar with C, JavaScript, Scala, HTML/CSS

Other: MongoDB, React/Redux, React Native, Spark, Hadoop, TensorFlow, Jupyter, Scikit-learn, Excel

Experience

Data Engineering Intern

May 2019 – August 2019

Facebook, Menlo Park, CA

- Improve statistical approximations of classifier missed violating content on Facebook under the Community Integrity team, including abuse areas like spam, hate speech, nudity, violence, etc.
- Implement bias correction on bias stemming from human labeling errors, and sample distribution bias
- Merge and optimize two separate sampling pipelines to reduce daily I/O and computational cost by ~50%

Deep Learning Vision Researcher, REU recipient

May 2018 – July 2018

University of Miami, Coral Gables, FL

- Propose and investigate methods of improving image recognition under a low contrast environment
- Train large-scale convolutional neural networks and integrate approaches for divisive normalization
- Improve accuracy of base model by ~4% for low contrast images

Teaching Assistant

January 2018 – Present

CS557 – Artificial Intelligence, Emory University

- Cover lectures and tutor students during office hours for a graduate class of 40 students; grade projects

CS377 – Database Systems, Emory University

- Tutor students during office hours on relational databases(MySQL); grade projects and homework

Machine Learning Researcher

September 2017 – May 2018

Scholarly Inquiry and Research Program, Emory University

- Built a model that classifies whether a gene variation may contribute to tumor growth
- Aim to Improve bottleneck for cancer treatment; ~60% accuracy in predicting 9 classes of tumor growth

Projects

Twitter Hashtag Recommender System (Context-Aware Collaborative Filtering)

- Recommend top-k hashtags for a given a tweet to help users/businesses target the most relevant audience
- Novel recommender system, inspired from tf-idf weighting combined with a popularity weighting schema to produce a weighted co-occurrence matrix mapping hashtags with terms, capturing the viralness of a post

Emory Course Rating

- Led a team of 5 students in designing and developing a course rating system; incorporated Agile methodologies
- Developed and designed frontend with React/Redux and developed backend search algorithms with MongoDB

SmartAlarm – bit.ly/SmartAlarmApp

- Created an Android app that analyzes whether the user is asleep or not after an alarm based on phone movement and starts up the alarm again if the user is asleep

Leadership and Community Engagement

Development Director

September 2017 – May 2018

Data Science Club, Emory University

- Develop relationships with clients to identify opportunities of collaboration for data driven solutions