

DAVID W. YAN

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EDUCATION

Duke University

August 2014 - May 2018

B.S. Computer Science, Expected 2018

Overall GPA: 3.83/4.0

Coursework

Graduate Coursework: Parallel Programming, Image Processing, Graph Algorithms (Upcoming)

Undergraduate Coursework: Software Development and Design, Web Development, Design and Analysis of Algorithms, Linear Algebra

EMPLOYMENT

Evernote

May 2017 - August 2017

Full Stack Software Engineering Intern

Redwood City, CA

- Member of the Evernote Growth Infrastructure/Commerce Team
- Designed and implemented a full-stack experiment framework and API that will enable engineers throughout the company to create, view, and gather statistical data on experiments in real time. The framework I developed will encompass Evernote's 20+ million daily active users. Written primarily in Java and Stripes Framework.
- Created a unified dashboard to manage experiments and target experiments to specific users based on a defined set of characteristics.

Trading Technologies

May 2016 - August 2016

Software Engineering Intern

Chicago, Illinois

- Developed Javascript based features to enable high speed web trading on the TT Web trading platform. Optimized data communication pipeline to reduce latency on trading and placing orders by approximately 30%.
- Created Slack integration service using Amazon Web Services SDK for NodeJS to instantly display live company analytics within a Slack channel. This feature is in daily use by over 300 members of the company.

PROJECTS AND RESEARCH

Research in Parallel Programming for Graph Algorithms

Jan 2017 - Present

- I am currently developing a parallel all pairs shortest path algorithm that primarily targets graphs with many strongly connected components. This work is done with Professor Xiaobai Sun at Duke University.
- Created and openly distributed a MPI/C++ benchmarking routine for MPI.COMM.WORLD communication latency with MATLAB visualization to measure data transmission latency between all machines within a specified computer cluster.

Codestory

Mar. 2016 - Present

- Co-founder and full-stack developer of a web based 3D environment that gives computer science students a visual representation of code execution using BabylonJS for 3D model rendering.
- Grand prize winner of \$10,000 grant for the Duke ChangeWorks Social Good Competition.

Duke University Mobile Medicine Project

Jan 2016 - June 2016

- Developed an iOS app to collect over 50 million minute by minute movement data points from Fitbit users.
- Designed and implemented a data pipeline utilizing the iOS application, Firebase API, and Python automated scripting to fetch, process, and export user movement and heart rate data for time series analysis in Matlab.
- Created prediction model for user mood levels based on locomotor movement and sleep data.

SKILLS AND INTERESTS

Skills Java (Primary), Javascript, Python, Matlab, React, NodeJS, AngularJS, MySQL

Interests Image Processing, Machine Learning