TRENTON YUNTIAN WANG

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EDUCATION

Johns Hopkins University   Expected Graduation: May 2021
BS/MS in Computer Science, BS in Physics (Honors), BA in Mathematics   *Baltimore, MD*
Relevant courses: Databases, Computer Systems, Automata & Computation Theory, Algorithms, Artificial Intelligence, Parallel Programming, Operating Systems, Honors Real Analysis, Honors Abstract Algebra
Activities: Robotics Club, Physics Society of Students, Sigma Pi Sigma Physics Honors Society. Executive member of Physics Journal Club and Global China Connection, Hophacks, Medhacks
GPA: 3.94/4.0 · Dean's List for all semesters

WORK EXPERIENCE

Facebook   June 2020 - August 2020
Software Engineer Intern   *Menlo Park, CA*

- Developed new scheduling system for Facebook ads experiments using object-oriented framework, integrated comprehensive metric logging, reduced error rate and increased test coverage by over 30%.
- Migrated ads experiments scheduling to new system while maintaining backwards compatibility. Implemented bots to automate processing of requests for experiment owners, reducing oncall operational cost.

Amazon AWS   June 2019 - August 2019
Software Development Engineer Intern   *Vancouver, Canada*

- Implemented new data serialization and compression frameworks in multi-threaded environment to process bills for AWS customers, which improved data aggregation and persistence latency by more than 5 times and reduced memory footprint by over 20%.
- Developed internal tools to retrieve, filter, and aggregate customers' bills from service API endpoints using Node.js with different JavaScript libraries.

Denmark Technical University   May 2018 - August 2018
Software Developer, Physics Researcher   *Copenhagen, Denmark*

- Developed data analysis and visualization programs for physics research on 3D Polarimetric Neutron Tomography to model magnetic fields of arbitrary bulk samples, collaborating with PhDs and post-docs.
- Optimized reconstruction algorithm by at least 30% through distributing core data interpretation functionalities into modularized micro-services.

TECHNICAL SKILLS

Programming: Java, C/C++, C#, Go, Ruby, Python, Haskell, Php/Hack, SQL, HTML/CSS, JavaScript
Tools & Framework: object-oriented & functional programming, mobile & web development, React, Angular, Node.js, databases, MongoDB, Rest API, Express, AWS, Unix/Linux, multi-threading, Scrum/Agile

SELECTED PROJECTS

Ocubar E-commerce Content Sharing Platform   April 2020 - Present
Developed MEAN stack web application to promote sharing and advertising for content creators of game mods, gameplay videos, and other media using on-platform credit system. Integrated user authentication, multilingual support, and Stripe secure payment gateway. Deployed using AWS Elastic Beanstalk, S3 and CloudFront.

Zionx Social Investing Network   September 2018 - Present
Used signal tracking of trading APIs to develop a trading platform with copy-trading functionality and intuitive portfolio analytic tools, a venture aimed to encourage strategies sharing among investors.

Dynamic Soccer Database   October 2018 - December 2018
Designed and implemented a relational MySQL database, along with web interface, which collects real-time soccer statistics from sports API and provides querying using stored procedures and match betting using transaction.

HONORS & AWARDS

Business Plan Competition 3rd place · Johns Hopkins University	March 2019
Spark Grant Winner · JHU FastforwardU	November 2018
O'Conner Grant Top 10 finalists · JHU FastforwardU	October 2018
BC Physics Olympics Gold Medalist · University of British Columbia	March 2017
Duke of Edinburgh's Award Silver, Bronze Medalist · Government of British Columbia	March 2017