

TRENTON YUNTIAN WANG

801B, 9 E 33rd Street, Baltimore, MD 21218, USA
(+1) 410-522-8657 ◊ timmybook@hotmail.com
linkedin.com/in/trenton-wang/ ◊ github.com/ywang382

EDUCATION

Johns Hopkins University

Expected Graduation: May 2021

Bachelor of Science in Computer Science, Physics, and Mathematics (Honors)

Baltimore, MD

Relevant courses: Intermediate Programming, Data Structures, Databases, Computer Systems, User Interface/Mobile Development, Automata & Computation Theory, Algorithms, Operating Systems

Activities: Robotics Club, Physics Society of Students. Executive member of Physics Journal Club and Global China Connection, Hophacks, Medhacks

GPA: 3.98 · **Major GPA:** 4.0 · Dean's List for all semesters

WORK EXPERIENCE

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.

China Harmony of Health Technology Ltd.

June 2017 - August 2017

Full-stack Software Engineer

Guangzhou, China

- Enhanced data filtering for customer dashboards and scaled up relational querying to accommodate 50% more data by implementing different optimization such as indexed search and hash-join.
- Ensured secure customer data transfer by following ACID and log-based database transaction protocols.

TECHNICAL SKILLS

Programming: Java, C/C++, C#, Go, Ruby, Python, Haskell, PHP, SQL, HTML/CSS, JavaScript, Node.js

Tools & Framework: object-oriented & functional programming, mobile app & web development, databases, AWS, Unix/Linux, testing, multi-threading, data analysis, API, Git, UI/UX design, Scrum/Agile

Foreign Languages: Chinese Mandarin, Chinese Cantonese, French

SELECTED PROJECTS

Zionx Social Investing Network

September 2018 - Present

Used signal tracking of trading APIs to develop a trading platform with simple copy-trading and intuitive portfolio analytic tools, a venture aimed to promote strategies sharing among investors.

Down Social Planning App

February 2019 - May 2019

Developed open-source mobile app for easy and spontaneous event planning with nearby people in the same community, using Android Studio with back-end data storage on Google Firebase.

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