

Trenton Yuntian Wang

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Education

Johns Hopkins University (JHU)

Baltimore, Maryland

Bachelor of Science in Computer Science, Physics, Mathematics | GPA: 3.97

September 2017 – May 2021

Triple majoring. Enrolled in honors sequence for mathematics.

University of British Columbia (UBC)

Concurrent studies in Mathematics | GPA: 4.0

Vancouver, British Columbia

Concurrent studies of university courses during senior year of high school.

September 2016 – April 2017

Employment History

Johns Hopkins University

Baltimore, Maryland

Physics Researcher

September 2018 - Present

Undergraduate researcher for particle physics, working under professor with grad students and fellow undergraduates. Programming in C, C++, Python and other languages for validation as well as alignment algorithm for the modules of the Large Hadron Collider at CERN.

Technical University of Denmark

Copenhagen, Denmark

Physics Researcher

May 2018 - July 2018

Physics research on 3D Polarimetric Neutron Tomography of Magnetic Fields collaborating with PhDs and post-docs. Responsible for data analysis, data storage & processing, algorithm, and code optimization, primarily in C and MATLAB. Optimized reconstruction algorithm for 3D magnetic field by at least 30%.

China Harmony of Health Technology Ltd.

Guangzhou, China

Software Engineer

June 2017 - August 2017

Member of the software development team. Tasks include software development and testing, database management, design, and implementation, user interface design, web design and development. Successfully processed health data of a large pool of customers.

University Chapel

Vancouver, Canada

Technician

September 2012 - June 2017

Perform audio system maintenance and technical setup. Technical maintenance of audio system, soundboard, projector, and other electronic equipment. Present and edit PowerPoint presentation and accompany as a pianist for religious service.

Professional Skills

- Proficient with programming and testing in Java, C, C++, Python, MATLAB, GO
- Functional programming: Haskell, Scala
- Web design, development: JavaScript, HTML, CSS, PHP
- Database design, management: MySQL, SQL, XML, PHP
- API Integration
- MS Office, MS Visual Studio
- Unix/Linux Systems: ubuntu, solaris
- User interface design
- Mobile application development, Andriod Studio
- Big Data, Data analysis, Data Structures
- Algorithm analysis, optimization
- Version control systems: Git, Bitbucket
- Computer system/architecture

Languages

- English – Native
- Chinese, Mandarin – Native
- Chinese, Cantonese – Working Proficiency
- French – Working Proficiency

Honors and Awards

- **Spark Grant Winner** | Johns Hopkins University FastForwardU
- **2016 BC Physics Olympics Gold Medalist, 6th place overall as team** | University of British Columbia
- **The Duke of Edinburgh's Award Silver and Bronze Medalist** | Government of British Columbia
- **National AP Scholar of Canada** | College Board
- **Essay Contest, Math Challenge Award of Distinction** | Center for Future Global Leaders
- **1 gold, 2 silver, 3 bronze medals** | Vancouver Kiwanis Music Festival
- **2 gold, 1 silver, 3 bronze medals** | Richmond Music Festival
- **Young Composer's Competition Excellence Award** | Vancouver Academy of Music

Activities and Projects

JHU Society of Physics Students

September 2017 - Present

Executive member

Part of the Physics Journal Club. Schedule and maintain regular meetings, lectures with physics professors and students. Arrange and invite different speakers and notify members for club meetings.

JHU Robotics Club

September 2017 - Present

Active member

Attend regular meetings, lectures, and workshops on robotics, autonomous machines, artificial intelligence, and machine learning. Design and build robotics projects as part of a team with other fellow undergraduates.

ZIONX Crypto-Trading Network

February 2018 - Present

Co-founder

Small business start-up focused on developing a new crypto-trading platform providing free vanilla trades with an integrated social network to promote peer-to-peer trading as well as group trading. Received funding from investors as well as grants from start-up competition, such as the Spark Grant.

Cornell University Summer Program

June 2016 – August 2016

Participant

Participate in an intensive Engineering seminar overviewing the various fields in engineering including, electrical, chemical, biomedical, and computer engineering. Enroll in physics lectures and take part in mechanics and heat laboratory, produce independent lab report on results

National Student Leadership Conference

June 2015 – August 2015

Participant

Participate in Engineering and Leadership training, take part in various engineering designs, challenges and projects. Completed projects include human-controlled under water robots, complex circuits, mechanical engineering.

Digital Medial Academy Game Development Bootcamp

June 2014 – August 2014

Participant

Six-week boot camp focused on video game design and development, primarily in Java. Projects include chess game, Tetris, and Multiplayer virtual-word games.
