

# Tony JunYan Cai

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## EDUCATION

### UNIVERSITY OF WATERLOO

BACHELOR OF COMPUTER SCIENCE  
(BUSINESS OPTION)

2016 - Present | Waterloo, ON

Faculty Average: 90.33%

Cumulative Average 92.22%

## PROGRAMMING

Blockchain languages & technologies:

Solidity • web3.js • Truffle Suite • Remix  
Infura • OpenZeppelin

Other languages & technologies:

Javascript • C++ • C • C# • Java  
Python • React • MEAN Stack • .NET

Blockchain projects:

### XOR Protocol Proof-of-Concept

Ethereum • Solidity • React • Truffle Suite

A transparent, decentralized, and democratic financial system consisting of programmable & modular credit markets.

### Shipt! | DeltaHacks IV

Ethereum • Solidity • React • Truffle Suite

A decentralized shipping sharing economy leveraging excess capacity of passenger vehicles.

### CryptoRyder | McHacks V

Ethereum • Solidity • React • Truffle Suite

A decentralized inter-city ridesharing economy facilitating fee-less transactions.

## EXTRA-CURRICULARS

Teaching Assistant | Sep - Dec 2017

Faculty of Mathematics | UWaterloo

Webmaster | Sep - Dec 2017

Data Science Club | UWaterloo

### Squadron Deputy Commander |

Sep 2015- Aug 2016

Royal Canadian Air Cadets | Vancouver, BC

- Acted as 2<sup>nd</sup> in command of a squadron of 160 cadets aged 12-18
- Earned Transport Canada Private Pilot's License (70+ flight hours)

## INTERESTS

Aviation • Alpine Skiing • Board Games  
Finance • Piano • Singing • Traveling

## EXPERIENCE

### CONSENSYS (OPENLAW) | FULL-STACK BLOCKCHAIN DEVELOPER

Sep 2018 - Present | Remote / Toronto, ON

### XOR PROTOCOL | Co-FOUNDER, BLOCKCHAIN DEVELOPMENT

Feb 2018 - Present | Waterloo, ON (Site: [xor.finance](http://xor.finance) | POC: [alpha.xor.finance](http://alpha.xor.finance))

- Spec, implement, test, and deploy Solidity smart contract upgrades to Protocol POC on Ethereum Ropsten Testnet
- Integrate smart contracts with front-end using web3.js and Truffle Suite
- Develop and maintain repository of sample trust score and interest calculation smart contract modules that can interface with Protocol DelegateProxies
- Co-architect of preliminary XOR Value Token (XVT) cryptoeconomic model
- Lead front-end developer on XOR marketing site ([xor.finance](http://xor.finance)) and co-author of XOR Protocol whitepaper
- ETH Buenos Aires - Integration of ERC 1068 Loan Standard and Dai stablecoin lending mechanism with automatic liquidation safeguard

### MANULIFE | VISITING SOFTWARE ENGINEER

Jan 2018 - Apr 2018 | Kitchener, ON (Work Term 1 via Laurier Co-op)

- Full-stack development using .NET (GB Plan Member site) and Java (GB Plan Administrator site) as a member of the Group Benefits (GB) Webservices team
- Prototyped, and delivered client-facing solutions to allow institutional clients and their employees to more easily and conveniently administer and access employee benefits respectively as per business requirements
- Work w/ senior developers to identify, analyze, and solve production problems
- Recognized for UI / user flow redesign in support of GB migration initiative from physical to online reporting of claims, leading to a 30% increase in user adoption of online reporting and associated cost-savings
- Prototyped and pitched new Manulife Bank credit card initiative to executives - an à la carte client selection of card rewards & benefits to boost card adoption

### EYEXPO TECHNOLOGY CORP. | SOFTWARE DEVELOPMENT INTERN

Jun 2017 - Aug 2017 | Vancouver, BC

- Member of development team for online VR Creation Tool (EYEPANO) application in which users can create a 360° VR environment from still photos
- Developed and tested VR stitching script/algorithm, leveraging OpenCV libraries and open-source Hugin toolset
- Full-stack development on MEAN stack

## AWARDS & DISTINCTIONS

2018	Ethereum Foundation	Devcon IV - The Future Scholarship
2018	ETH Buenos Aires	MakerDAO Sponsor Prize Winner
2018	1517 Fund	1517 Grantee - XOR Protocol
2018	DeltaHacks IV	Best Use of Blockchain - Shipt!
2018	Manulife	Runner-Up, Co-op Innovation Challenge
2018	uOttaHack	Runner-Up, Best Health Care Hack - Alexatomy
2017	University of Waterloo	Fall 16 - Fall 17 Term Dean's Honours List
2017	Wilfrid Laurier University	2016/17 Year Dean's Honour Roll
2017	Wilfrid Laurier University	1 <sup>st</sup> Place - Laurier Int'l Business Case Comp.
2016	Wilfrid Laurier University	President's Gold Scholarship
2016	Wilfrid Laurier University	Western Canada Scholarship ( <i>Awarded to 2 Western Cdn. first-year students for personal initiative &amp; community involvement</i> )