Zhenghong Lieu

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University of Oxford   Oct 2017 – present
B.A. in Philosophy, Politics and Economics (PPE)
- Quantitative Political Essay Prize: for best essay of politics cohort (~300 students)
- Sam McNaughton Prize: for top score in Philosophy in the PPE first-year exams
- Fowler Prize(s): for First-class performance in termly exams, awarded 6/6 terms

Relevant online courses (Coursera/edX)

Computer Science	Data Science
Algorithms and Data Structures	Big Data Analysis with Scala and Spark
From NAND to Tetris I & II (computer architecture)	Parallel Programming
Databases	Deep Learning Specialisation
	Machine Learning

Languages and Technologies
Fluent in `Python`, `JavaScript`. Familiar with `Scala`, `R`, `SQL`, `C++`
`Keras`, `Node.js`, `Electron`, `Hyperledger`, `PostgreSQL`

Data Scientist (Intern)   Jun 2019 – present
Inzura AI
- Increased monthly active users by > 20% by building customer intervention pipeline in `Python` and `SQL` that uses Bayesian statistics to maximise intervention effectiveness
- Built deep learning model with `Keras` that reduces trip processing time by 100x compared to existing rule-based system
- Deployed distributed `Apache Spark` infrastructure and performed Big Data analysis with `Scala` on >6 billion data points

Blockchain Developer (Intern)   Jun 2018 – Aug 2019
Infocomm Media Development Authority of Singapore (IMDA)
- Created a fully-automated blockchain demonstration of supply chain management with:
  - Real-time blockchain visualisation using `JavaScript` and `Canvas`
  - IoT sensor integration to update asset location data on `Hyperledger` blockchain
  - QR-code based asset tracking with `Blockchain REST API` and `Node.js`

Software Engineer   Jun 2017 – Aug 2017
Imcomp International
Greatly increased firm efficiency (75% less time taken to generate reports, 300 engineer hours saved per month) *by developing bespoke building inspection software* (`Electron`, `Vue.js`, `JavaScript`)

Venture Capital Analyst (Intern)   Jan 2017 – May 2017
iGlobe Partners
Increased firm efficiency by developing office automation tools
- Co-wrote 2 papers recommending investment; senior management accepted both recommendations and made Stage B investments
- Developed more powerful version of Microsoft Mail Merge in `Python` that automates away 90% of human errors and saves 50% time when sending mass mailers

Python Programming Tutor (Volunteer)   May 2016 – Sep 2017
Ulu Pandan Stars
Taught a team of underprivileged children `Python` *and led them to win 3rd (amongst ~100 participating teams) in national hackathon* `CodeXtreme`

Soldier (Conscript)   Feb 2015 – Dec 2016
Singapore Armed Forces (SAF), HQ Army Medical Service
Developed the Army's first item tracker and automatic SMS reminder service:
- Won second prize in the Army Annual Innovation Competition
- Won Best Soldier of the Month out of ~3000 soldiers
Tech stack: React, Node.js, Express.js, auth.io, Heroku, MongoDB, JavaScript