Zhenghong **Lieu**

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Education

University of Oxford, Merton College
2017 – 2020 (est.)

Philosophy, Politics and Economics (PPE) BA

- Quantitative Political Essay Prize: for best essay of my Oxford politics cohort, *Does Consensus Democracy Improve Economic Outcomes?*
- Sam McNaughton Prize: for best performance in Philosophy in the PPE first-year exams
- Fowler Prize(s): for First-class performance in termly exams, awarded every term so far

Coursera Specialisations and MOOCs
2017 – present

- Algorithms Specialisation (taught by Tim Roughgarden), Stanford University
- Competitive Programmer's Core Skills, SPSU
- From NAND to Tetris (I & II), IDC Herzilya
- Machine Learning (taught by Andrew Ng), Stanford University

Experience

Languages
- JavaScript
- C/C++17
- Python
- HTML
- CSS

Technologies
- Node.js
- Electron
- React
- Hyperledger

Blockchain Developer Intern
Jun 2018 – Aug 2018

Infocomm Media Development Authority of Singapore (IMDA)

- Headed a project that persuades industry leaders to adopt blockchain in their companies, after obtaining buy-in from senior management
- Developed a fully-automated blockchain solution for supply chain management:
  - *Real-time blockchain visualisation*
  - *QR-code enabled asset tracker (Blockchain REST API)*
  - *IoT sensor integration to update asset location data*

`Tech stack: Hyperledger Fabric/Composer, Node.js, JavaScript`

Software Engineer
Jun 2017 – Aug 2017

Imcomp International

- Greatly increased firm efficiency by developing bespoke building inspection software:
  - *85% less time taken per inspection*
  - *75% less time taken to generate report*
  - *300 engineer-hours saved per month (~100 inspections/month)*

`Tech stack: Electron, Vue.js, JavaScript`

Venture Capitalist Intern
Jan 2017 – May 2017

iGlobe Partners

- Co-wrote 2 investment papers recommending investment in fintech/big data startups
- Senior management accepted both recommendations and made Stage B investments
- Developed more powerful version of Microsoft Mail Merge that achieved:
  - *90% fewer human errors in sending mass mailers*
  - *50% time saved in sending mass mailers*

`Tech stack: Python`

Conscripted Soldier
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`

Service

Supervisor and Tutor
May 2016 – Sep 2017

Ulu Pandan Stars

- Led the team that won 3rd (amongst ~100 participating teams) in national hackathon CodeXtreme: "digital wallet" implementation on the micro:bit embedded system
- Taught underprivileged children Scratch and Python programming