

## Education

Personal Site (Version 0): [jysoo.azurewebsites.net](http://jysoo.azurewebsites.net)LinkedIn: [linkedin.com/in/jinyunsoo](https://www.linkedin.com/in/jinyunsoo)

### MEng Electrical and Electronic Engineering, Imperial College London

2013 - 2018

- **First Class in Year 3.** Best module thus far: **Artificial Intelligence** (Grade: **A+**). 2:1 overall; aiming for First Class overall.
- Some modules: data structures and algorithms, embedded systems, artificial intelligence, machine learning, optoelectronics, optical communication, advanced signal processing, systems and control theory, discrete-event automata theory, graphics.
- Business modules: accounting, economics, corporate finance (spring 2018)

## Projects

**Final Year Project** in partnership with **Microsoft** (Oct 2017 - June 2018): Tech Accessibility for the Visually Impaired.

- Ideate, design, and implement software solution for specific use cases to improve the user experience of the visually impaired when using smartphones and PCs to consume data for learning and productivity.
- Involve inexpensive tactile spatial navigation interface, voice feedback (Microsoft 3D Soundscape, speech, non-speech sounds).
- Involve information retrieval/natural language processing/AI, and GPU/cloud/high performance computing optimisation.

**Personal Website (Version 0):** Designed and coded by yours truly. Used **Angular**, Continuous Integration, Microsoft Azure.**Year 3 Embedded Systems Project:** Real-time programming (**C++**) for Motor Controller to meet specifications. (Grade: **A**)**Year 2 Group Project:** Responsible for the **Bluetooth LE Android app (Java)** of the Pickpocket Prevention tool. (Grade: **A+**)**Others:** Simple chat service (Go / Golang concurrency practice), Udacity practices (Python), etc.

## Work Experience

**Schlumberger Abingdon Technology Centre (AbTC)****Software Engineering Intern**

Apr - Sep 2017

- Technology stack: **Docker, Kubernetes, Microsoft Azure, Google Cloud (incl. Pub/Sub, Datastore), CouchDB, Grafana, Swagger** (application programming interface, **API**), **Node.js, Angular (TypeScript, HTML, CSS), Python, Go / Golang**
- Commercial software development process involving user-centred design, UX, Agile methodology, and Continuous Delivery.
- Liaised with different subteams. Worked on both the **front end** and **back end** of **cloud / web applications and services**.
- Contributed to various products/stages: internal tools, early discovery, development, go live for user testing, go to market.

**TuringLab** Lead instructor for paid coding lessons. Volunteer for outreach lessons for girls and the less privileged.

2015 - 2016

**Bloomberg LP, London****Trading Solutions Connectivity and Integration (TSCI) Summer Intern**

Jun - Sep 2014

- Worked with proprietary Visual Programming Language (VPL) based on **F# language, PDF syntax, XML/XSLT/XSD, FIX message**
- **ETL workflow and data transformation.** Used F#-based VPL to create Automation Tool to generate Weekly Project Status Reports for clients. Project presented by manager in Bloomberg's annual summit in New York.
- Used F#-based VPL to create Transform that parses FIX messages into readable XML with detailed handling of Repeated Groups and ability to handle different versions of FIX Specification. Liaised with Fixed Income Trading (FIT) department.

**University Royal Naval Unit (URNU) London**

2013 - 2014

- Royal Navy training establishment that aims to develop undergraduates who show the potential to become the leaders of tomorrow, through maritime experience and exposure to the values and ethos of the Royal Navy.
- Officer Cadet (OCDT). One of around 20 new cadets selected in 2013 from universities in London.

## Extracurricular Activities and Awards

**Microsoft Student Partner** Write technical articles. Organise/join tech outreach programmes for university students. 2017 - 2018**Imperial College Advanced Hackspace (ICAH)** Champion (Student Volunteer)

2016 - present

**Old Centralians' Trust Student Activity Award (Peter Lindsay Award)**

2017

- Awarded to two undergraduates from each department in the Faculty of Engineering for all-round involvement in university life.

**BP Women in Science and Engineering Award** Awarded by BP via the Faculty of Engineering

2016

**McKinsey Discover, London**

One of 43 participants selected from around 1200 applicants for residential programme.

2016

- Used McKinsey's approach to solve business case studies and deliver presentations. Honed interpersonal and soft skills.

**US Young Southeast Asian Leaders Initiative (YSEALI) YOUNified Malaysia 3rd Anniversary Project Funding**

2016

- Advisor for Team XX Factor: One-day programme comprising of team games to inspire teen girls to pursue STEM with confidence
- Won funding from the US government's YSEALI programme. Designed cryptography game that introduces basic coding concepts.

**Robogals (London Chapter)** Volunteered to teach children robotics with the aim of increasing girls' participation

2014

**Imperial Hub CoderDojo** Worked with fellow volunteers to teach youth/children coding

2013 - 2014

## Programming Languages, Markup, Framework used

Python, Go, C++, TypeScript, JavaScript, Prolog, Java. HTML, CSS. Angular.

## Language Skills

Native/Bilingual proficiency in English, Mandarin (traditional, simplified), Cantonese, Malay. A little Japanese.

## Interests

Theory of Music (won Hedy King Robinson Award two times), Piano (ATCL Diploma), SCUBA diving (PADI), cooking. In the past, involved in proofreading (English) scientific papers, translation, student entrepreneurship (college, national, international level), international conferences or youth programmes (best speaker for 2, sponsorships for all), and worked with diverse groups of people in theatre backstage, Bar Association's campaign, and United Nations Framework Convention on Climate Change (UNFCCC). **MENSA** (achieved full score in IQ test: 180/180).