

Joon-Ho Son
MEng Computing at Imperial College London

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EDUCATION

- Imperial College London* Sep 2017 - Jul 2021
- MEng (Hons) Computing
 - Second year: 80% (1st class); first year: 72% (1st class)
 - 90% Year 2 Computing Laboratory; 90% Year 2 Group Project
- Hills Road Sixth Form College* Sep 2015 - Jun 2017
- A-Levels: Maths (A*) Chemistry (A*) Further Maths (A) Physics (A) EPQ (A*)

EXPERIENCE

- Google, STEP Engineering Intern* Jul 2019 - Sep 2019
- Designed and implemented a resource optimisation tool for a distributed data synchronisation service using **Go** and **protocol buffers**.
 - 52% projected RAM utilisation savings in production pipelines by applying computed optimal resource footprints.
 - Increased productivity of thousands of engineers by integrating with an internal incident response management tool to reduce toil involved with diagnosing underprovisioned pipelines.
- Wiser, Tech Academy* Sep 2018 - Sep 2019
- Connected clients looking to hire technology graduates directly with students on campus.

PROJECTS

- Mobilise sonj.me/mobilise* May 2019 - Sep 2019
- Developed a volunteer coordination web application for *City Harvest London*, a charity aiming to end food waste.
 - Awarded the *IBM 2nd Year Group Project Prize* and backed for further development by *Charity Insights*.
 - Used full-stack **JavaScript** to build a user-friendly web frontend (**React**) and powerful backend (**Node**, **PostgreSQL**) hosted on **AWS**.
- WACC Compiler* Jan 2019 - Mar 2019
- Worked in a small team to develop a compiler for the WACC language in **Kotlin** from scratch.
 - Implementation included advanced class functionality, control flow analysis, and automatic reference counting.
- Pintos Operating System* Oct 2018 - Dec 2018
- Acted as group leader to delegate tasks and manage sub-teams.
 - Responsible for implementing effective priority scheduling, user programs, and virtual memory in **C**.
- Poisonous Mushroom Classification sonj.me/mushrooms* Aug 2018 - Sep 2018
- Performed an in-depth exploratory data analysis on the feature set of over 8000 poisonous and edible mushrooms.
 - Trained a classifier in **Python** to predict the edibility of a mushroom based on a selected subset of these features.
 - Approach emphasised effective choice of metrics and hyperparameters in order to tackle class imbalance.
- Flask Wii Interactive Webapp sonj.me/flask-wii* Jul 2018 - Aug 2018
- Created and deployed an experimental web application that allows the user to turn their smartphone into a 3D controller.
 - Utilised WebSockets in **Python** (**Flask**) to enable realtime user interaction from **JavaScript** frontend.

ACHIEVEMENTS

- Palantir Data Ethics Case Competition (1st Place) sonj.me/data-ethics*
- Coordinated a multi-disciplinary team in order to present a proposal detailing the technical and ethical challenges surrounding large-scale data collection at the *Amsterdam Privacy Conference 2018*.

SKILLS & INTERESTS

- Languages:** Proficient with Go, Python, JavaScript; familiar with Java, C, Kotlin; previously used Haskell, C++, TypeScript, SQL.
- Technologies:** Experienced with Git; familiar with Linux/Unix, LaTeX, CI/CD (Travis, Circle, GitLab); exposed to Docker, AWS, Perforce.
- Extracurricular:** Imperial College Taekwondo Vice-president '19/20, Secretary '18/19.