Dikun Fang (Daisy)

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EDUCATION

Imperial College London | London, United Kingdom *Oct 2025 – Jun 2029*

MEng Design Engineering · First Class, year 1

- **Relevant Modules:** Engineering Mathematics; Computing; Data Science; Electronics; Human-Centred Design Engineering; Design Engineering Principles; Solid Mechanics; Materials and Manufacturing; Physical Computing.
- **Relevant Coursework:** Data Exploration and Analysis, Statistics, Foundations of Machine Learning, Algorithms and Data Structures, User Research, Requirements Definition and Validation, Iterative Prototyping.

EXPERIENCE

The University of Hong Kong Hong Kong & Remote, China **Jun 2026 - Present**

Research Assistant - CompassHealth.ai

- Turned a drug-safety research model that only ran locally into a browser-based tool, so clinical and pharmacy researchers could explore medicine-pair interaction risks without running code.
- Worked with the research team to define what users needed to see, translating model-generated interaction results and Neo4j graph data into a clear risk-exploration interface.
- Built the web application in TypeScript, refactored its components and deployed it on a Linux cloud server.

Beeplux Semiconductor Shanghai, China **Aug 2026 - Sep 2026**

Software Development Intern - C# Host-Computer Application

- Owned a Windows host-computer application from blank project to delivery, turning device requirements and a supplied communication protocol into configuration, control and data-display features.
- Ran review cycles with the project lead, prioritised feedback and shipped the finished application to the team.
- Built in C# with serial communication, packet parsing and real-time waveform display; tested with the device to resolve hardware–software integration issues.

Huazhong University of Science and Technology / United Imaging Wuhan, China **Apr 2025 - Jun 2025**

Research Assistant - Diabetic foot wound monitoring AI model

- Reproduced the training and inference workflow for a diabetic-foot wound-monitoring model (YOLO detection, SAM segmentation and wound-area estimation) in Python.
- Organised several thousand hospital-provided images and worked with a senior researcher on image review and annotation, shaping the data the model learns from.
- Diagnosed model errors from precision, recall and confusion matrices, iterated on code and experiments, and supported testing of the associated application.

PROJECTS

ImpPet — Human–Centred Product Design Project Imperial College London **Feb 2026 - Apr 2026**

- Led problem definition: synthesised 57 survey responses and nine semi-structured interviews into personas, journey maps and affinity maps to define student needs around campus social interaction.
- Evaluated eight concepts against user value, feasibility and viability, set MVP scope and feature priorities, and redesigned around opt-in friend requests and permission controls after privacy concerns emerged.
- Co-built a digital–physical prototype (Figma, Lovable, ESP32/NFC, 3D printing) and tested it with 30+ first-year students; in one 20-person round, 18 rated it at least 4/5 for intuitiveness and effectiveness.

Coursework Projects Imperial College London **2026**

- Data Science: built an SVM to target above-median wine buyers; on held-out test data it found 214 of 224 of them.
- Materials & Manufacturing: ran the eco-audit of an emergency torch; our redesign cut its carbon footprint by 38 per cent.

ADDITIONAL SKILLS & ACTIVITIES

- **Product**: User research, requirements definition, MVP scoping, prioritisation, prototyping, usability testing, Figma.
- **Leadership**: AWS Student Builder Group Lead, 2026; Competitions & Hackathon Manager, Dyson School of Design Engineering.
- **Technical**: Python, SQL, TypeScript, C#, Neo4j, MATLAB, Linux, Arduino/ESP32.
- **Languages**: Mandarin (native); English (IELTS 7.0; professional working proficiency).