DEWEI LIU

Website: dliu.com **LinkedIn**: linkedin.com/in/deweiliu

Education

October 2026 **MSc Machine Learning and Data Science** **Imperial College London, UK**

Merit awarded in October 2026 (grade average 66%)

2017 – 2020 **BEng Computer Science** **Queen's University Belfast, UK**

First-class honours degree expected in June 2020 (current grade average 83%)
Degree-Plus accreditation awarded for extra-curricular development and achievements
Professional Erasmus Placement. Software Engineer at Ericsson in Ireland
Course Representative. Bridge between students and lecturers. Gather module feedback from students. Attend Student Union meetings to improve academic provision and course development
Student Assistant. Help organise university events and staff in the events as a student helper. Member of International Buddy Scheme to assist international students in their enrollment & orientation
Modules: Data Structures & Algorithms, Cloud Computing, Machine Learning, AI & Data Analytics, Network Security, Information Modelling & SQL, Android Development, Theory of Computation
Dissertation Project: Deep Learning for the Deployment of Mobile Apps (keywords: fog/edge computing, dynamic binding, autonomic control loop, predictive model, mobile backend, IoT)

2015 - 2017 **BEng Computer Science** **Guangdong University of Technology, China**

Grade Average: 84% (top 2 in my class)
Modules: C, C++, Java Programming, Calculus, Data Structures, Algorithm Analysis, Linear Algebra, Advanced Mathematics, Discrete Mathematics, Networking, System Design & Organisation
Class monitor. Organised inter-class events. Held class elections. Monitored classmates' learning progress and helped them with their difficulties in study and living.
Vice-president in Canteen Monitoring Commission. Organised food security checks in university canteens. Received food quality complaints from students. Advertised canteen jobs to students.
The degree will be awarded when the degree from Queen's University Belfast has been awarded

2012 - 2015 **High School Diploma in Science** **Wuzhou Senior High School, China**

Subjects: Mathematics - A, Physics - A, Biology - A, IT - A, Chemistry - B, English - B
Class monitor. The school ranking of my class improved from 15th to 6th out of 16 classes during my two-year monitoring
Class Representative of Mathematics. Presented mathematics exams & homework solutions to the class. Taught the class during teacher's leave because of my outstanding mathematics knowledge
Second prize award in Provincial Mathematics Competition representing the school

Skills

Programming: Java, Python, C/C++, C#, SQL, Bash, JavaScript, YAML, R, Matlab & adaptive to learn any new programming language
Technical Skills: AI, machine/deep learning, neural network, IoT, data analysis, edge/fog computing, virtual machines, containers, code review, Agile, web app frameworks
Technologies: Azure, AWS, Google Cloud, Red Hat Linux, Tensorflow, Web Frameworks, Node.js, Terraform, Bootstrap, DOT NET, RPM, Kubernetes, MS Office, Jira, Confluence
Technical Strengths: algorithms, data structures, mathematics, debugging, coding quality
Other Strengths: problem-solving, leadership, teamwork, adaptive in new environments

Experiences

August 2020 – Current **Senior Software Engineer** **Liberty IT, Belfast, UK**

September 2019 – May 2020 **Teaching Assistant** **Queen's University Belfast, UK**

- Technical demonstrator in modules Data Structure, Database, Algorithm and Android Development
- Assisted Computer Science students in their assignments and practical classes
- Invigilated module exams. Marked assessments and provided valuable feedback

June 2019 - July 2019 **Research Intern** **Institute of Electronics, Communications & IT, UK**

- Studied an unpublished cryptography protocol Privacy-preserving Location-based Service System (PLSS) which provided location services without users revealing their actual locations
- Simplified mathematical formulas of PLSS based on Zero-knowledge proof & Schnorr signature
- Implemented PLSS using C & Java on Maven servers and Android phones
- The implementation verified the protocol and provided experimental statics

July 2018 – March 2019 **Software Engineer - Placement** **Ericsson, Ireland**

- Solely implemented the initial concept version of Log Collection Service (LCS), which was highly recognised by the department manager and got funded by the department
- Led a team of four to implement a deliverable version of LCS using Python, YAML, Red Hat Linux
- Presented LCS seven times to teams worldwide and received high popularity, which shortened the time from 1 hour to 10 minutes for customers producing issue reports
- Analysed the trends of Customer Support Requests (CSR) using R and Excel
- Demonstrated daily CSR progress to the Customer Support department and helped the manager improve the department efficiency
- Gained valuable commercial and technical experiences and developed strong communication, leadership skills and job effectiveness

2012 – 2017 **Deputy Manager** **Restaurant, China**

- Part-time work in my parent-owned restaurant in China for five years
- Developed strong business skills, including problem-solving, marketing and leadership
- Managed accounting records. Monitored the services, food quality, cleanliness and employees
- Investigated and predicted the trends and customer needs in the restaurant market to increase popularity and decrease resource costs, and our profit doubled in a year
- Dealt with issues from the city council, including security inspections, commercial license renewals
- Helped restaurant relocation and managed the renovation

Additional Details

- Languages: English, Mandarin Chinese, Cantonese
- Member of a local charity in China which supplies food and basic needs to poor elders
- Completed two international Marathon racings in the last three years
- Champion of University Table Tennis Competition
- References are available upon request