Daiqi (Patrick) Wu

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Experiences & Projects

Barclays Investment Bank Technical Developer Summer Intern (CoreOps Engineering) – 06. 2019 -

- Learned about Barclays DevOps processes and procedures, algorithmic trading techniques and gained general understanding of investment banking structure
- Developed from scratch internal tools with Golang and Angular to provide operational services and enhance efficiency
- Deployed and tested applications / services on both internal bank platforms and AWS ECS / EC2 / Lambda / S3

UCL Centre for Research on Evolution, Search and Testing – 05.2019 -

- Researched on secure languages, type systems and ways to quantify information flows
- Engineered prototype language models and experimented on them to validate presumptions
- Collaborated with David Kelly and Earl T. Barr (Professor) to deliver prototype language models on time with high quality

JP Morgan Spring into Technology – 04. 2019 - 04. 2019

- Explored JP Morgan London office and shadowed engineers to learn about software development at JP Morgan.
- Competed in coding challenges hosted internally for spring tech Interns and team placed 2nd in one of the challenges.
- Attended talks and panel sessions on various aspects of technology in JP Morgan (ethics, design guidelines and etc.)

Facebook Hack-a-project Trainee – 02. 2019 - 03. 2019

- Explored Facebook London and learnt how its different product teams work together to provide services for its users.
- Provided one of the most efficient solutions to coding challenge problems and illustrated solutions to all attendees.
- Prototyped a React.js web app with Facebook mentors aiming to bring Uni societies and student communities together.

Olympiad in Informatics (OI) and ACM ICPC – 2009 -

- 10 years of continuous participation in competitive programming contests
- Learn to implement various algorithms, data structures, maths skills, std libraries and tricks used for optimisation.

    National Olympiad in Informatics 2015, 2016 (Advanced Group) 2nd Prize

    Ranked No. 21 out of 200 teams in UK Ireland Programming Contest 2018 (ACM Regionals)

    Extra : High School Informatics Contest Group Mentor and Online Judge Co-manager

    - Write and peer-review problems, standard solutions and judging scripts (Python and Shell) used for internal school OI contests with participants of around 100 students.

Global Leader Education (Beijing) Developer and Computer Science lecturer – 9.2017 - 9.2018

- Built internal GUI tools used for chairing Model United Nations conferences with C++ and wxWidgets, which increases conference chairing efficiency by around 50%.
- Lectured 70 students in classes of 7 - 10 on Artificial Intelligence and Python basics (optional module) and Computing and C basics for 2 months. Received 4.8 / 5 for teaching score assessed by students.

Student Union Tech Department Leader – 10.2015 - 7.2017

- Built websites and backend systems for student union and developed tools used for school activities (annual new year gala) making stage control digitised.

    Student Union Voting, Society and Volunteering Group Selection System

    - Used Javascript (Express.JS) and MongoDB to create a website that allows students to sign-in, manage their votes, society and volunteering group selections and check their attendance of events.

    High School Live Comment System on livestream webpage

    - System built for school's large-scale events' stage control and live-streaming. It allows users to send comments via different IMs and displays a rolling comment on the livestream.

- Led 10 freshers as the Tech team and co-op with school's TV crew on livestream and stage control.

Education

University College London (London) – BSc in Computer Science, 2018 - 2021 (1st Year Avg. 82.74)

University College London (London) – Foundation Course in Science and Engineering, 2017 - 2018, Distinction with UCL Progression Scholarship

No. 2 High School of Eastern China Normal University (Shanghai) – Senior high school, 2015 - 2017

Skills

Programming Languages :	Haskell, Scala(learning), R(learning)
- with 10,000+ lines of code or actual project experiences :	C++ / C, Java, Python, Golang, Javascript, Pascal / Delphi
Tools :	SQL, Redis, MongoDB, Git, HTML/CSS, Angluar, React.js