TANG Man Kit, Jacky

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EDUCATION

City University of Hong Kong   2023 Sep-2025 Aug(Gap Year)

Master of Science in Applied Physics   Hong Kong SAR, China

• Enrolled Research Project Course: **PHY6528 Advanced Research in Applied Physics**, Previously Supervised by **Prof. Wang Xin**

• **CGPA: 3.7/4.3**

Peking University   2021 July-2021 Aug

Summer Exchange Student(Being Shortlisted, Getting Nominated by PolyU FENG and   Beijing, China

participated in the Peking University's Summer GLOBEX Julmester Program 2021)

• **Attended Course**: Applied Analysis in Engineering Sciences

• **Attained GPA for the Exchange Program**: **3.68/4.00** (Total Scores: 87/100, Course Grade: A-)

The Hong Kong Polytechnic University   2018 Sep-2022 Aug

Bachelor of Science in Computing, Minor Degree in Applied Mathematics   Hong Kong SAR, China

• **Attained Honor**: Second Class Honor, Division I(Class Ranking in Academic Result: Top 5-10% among the class of the whole 2018-2022 cohort)

• **Attained Scholarship**: HKSAR Government Scholarship Fund-Talent Development Scholarship 2020/2021(Category: Innovation, Science and Technology), Li Po Chun Charitable Trust Fund Undergraduate Scholarship 2019/20

• **Relevant Courses**: AMA1110 Basic Mathematics I – Calculus and Probability & Statistics(A+), COMP1011 Programming Fundamentals, COMP2011 Data Structures, COMP2411 Database Systems(A), COMP2421 Computer Organizations, COMP3122 Information Systems Development, AMA3201 Computational Methods, COMP3335 Database Security, COMP4334 Principle and Practice of Internet Security(A-), COMP4434 Big Data Analytics, COMP4442 Services and Cloud Computing (A)

SKILLS

Programming Languages: Python 3, Java, C/C++, MySQL, R , Linux Bash, HTML, CSS/Bootstrap, PHP, NodeJS/JavaScript
Frameworks/Libraries: Pandas, NumPy, Flask, Django, OpenCV, PyTorch, TensorFlow, Scikit-Learn, Matplotlib , React.js, Vue.js
Communication Languages: English (Fluent), Mandarin (Fluent), Cantonese (Native)
Others: AWS, Microsoft Azure, MongoDB, Git, Docker, Linux System Administration, Restful API, LaTeX, Vulnerability Scanning & Penetration Testing, Academic Research and Thesis Writing

Qualifications: Huawei ICT Associate Big Data(HCIA), Microsoft Certified Azure-AI Fundamental(AI-900, total scores: 957/1000)

WORK EXPERIENCE

West Branch, China Academy of Information and Communications Technology(CAICT)   2023 June-2023 Aug

Software Testing Engineer(Intern), Changed Position From Technical Support Engineer(Intern)   Chongqing, China

• Reviewed the software project manual to understand the business logic of the web application system developed by the R&D department of the organization and tested its specific functionalities

• Discovered and Reported the **6** identified bugs to the project management system by writing reports and submitting the execution results of the target testing system during the software testing stage

Institute of Advanced Executive Education, The Hong Kong Polytechnic University   2022 Nov-2023 May

Part-time Teaching Assistant, Supervised by Prof. Brian Kei   Hong Kong SAR, China

• Provided technical guidance for the **40+** trainees to conduct the computer laboratory experiments and handled their enquiry about the course material HKMA ECF fintech for performing 2 days' job duties

• Reviewed the Lab manual of the HKMA ECF fintech course about the Blockchain/Distributed Ledger Technology and tested the execution environment of the Linux Shell Script, NodeJS and Web Front-End User Interface, Backend Logic Code written by GO to ensure the Lab experimental activities are conducted properly

PricewaterhouseCoopers limited   2022 Sep-2023 Feb

Risk Assurance Analyst(Cyber team at Dark Lab)   Hong Kong SAR, China

• Performed totally **5+** Security Vulnerabilities Scanning regularly by the vulnerability scanning tool and **15+** Web Application Penetration Testing by the security testing tool for the Internet assets owned by the company's clients(multinational group corporation)

• Validated and Reproduced the discovered Vulnerabilities(**2+** vulnerabilities with high severity) on the client's web application system
• Archived the validated Vulnerabilities, composed/documented the penetration testing reports and communicated with the company's client for bug fixing and website maintenance

Department of Computing, The Hong Kong Polytechnic University   2022 June-2022 Aug

Research Student Assistant, Supervised by Dr. Henry Chan and Mainly Collaborated   Hong Kong SAR, China

with Mr. Liu Yunfei

• Conducted Research and Analysed on the **20+** research work and innovative technologies such as AI,R/AR and/or advanced computing technologies for the implementation of a smart hybrid classroom.
• Provided assistance to implement the real-time facial expression recognitions for detecting the student's average emotion and concentration level with Python OpenCV library, Microsoft Azure API during the lecture.
• Investigated and conducted physical experiment for the possible integration and configuration of different electrical teaching facilities for being used more innovatively in a hybrid classroom.
• Provided assistance to prepare and compose research paper for the submission of IEEE International Conference on Teaching, Assessment, and Learning for Engineering (TALE) 2022) (Paper)

Office of the Chief Information Officer, The Education University of Hong Kong   2021 July-2021 Nov
IT Intern(Programming)   Hong Kong SAR, China
• Assisted with other Internal Department to carry out paper submission form digitalization by designing and creating the frontend layout of digital form, its frontend workflow layout with dedicated tools (WorkFlow First Designer) and its backend procedure like email sending function with proprietary scripting language, JAVA, JSP, JBoss 11+ Server, Eclipse IDE
• Implemented the automated validation checking of the user submitted input from the created digital form by proprietary scripting language inside the WorkFlow First Designer
• Gathered technical requirements and revised software project User Manual.
• Prepared User Acceptance Testing(UAT) document for system performance testing.

Pro-Tech Technology(Asia)   2020 June-2020 Aug
Intern(HKSAR STEM Internship Scheme 2020)   Hong Kong SAR, China
Assisted with daily operation and IT project implementation and being recommended with recommendation letter

LEADERSHIP EXPERIENCE , HONORS AND ACHIEVEMENTS

24-hour IEEExtreme 17.0 Global Programming Competition-Certification of Achievement   2023 Nov

- Leaded and Worked Collaboratively within a team of other 2 PolyU undergraduate students to represent CityU and Hong Kong SAR, China to participate the competition and historically representing Hong Kong SAR, China to secure the position of 14 th out of all the registered 7091 international teams(Team Rank: World Top 0.002%)

- Competed within 24 hour, wrote Computer Programs with different programming language(C++ and Python 3) and the knowledge of data structure, algorithm, combinatorial mathematics, number theory, cryptography to solve different Computer Programming Problems.

Huawei ICT Competition Global Final(Cloud Track) 2021-2022-First Prize   2022 Jun

- Participated as a team to historically represent PolyU and Hong Kong to secure the position of First Prize(First Runner-up out of 50000 international teams) in the Global Final(News 1 | News 2 | News 3) , Third Prize(Second Runner-up) in the APAC Final(News 1 | News 2) and First Prize(Champion) (News 1 | News 2 | News 3 | News 4) in the Hong Kong SAR Final, won the admission opportunity of the Internship program at Huawei Hong Kong Research Center

- Being tested with the domain knowledge in Cloud Computing, Artificial Intelligence, Big Data, Storage Technologies

- Operated with the Huawei Cloud and Linux Servers to build up the ecommerce website, databases and network infrastructure

- Assisted with other team members to handle the AI, Big Data Analytics, Storage Technologies tasks with the tools in the Huawei Cloud

1st Cybersecurity Blue Team competition in Hong Kong for the High-end Education institutions 2021-First Runner-up   2021 July

- Participated as a team to represent PolyU and Hong Kong to obtain the First Runner-up in the final round of the competition among the final 4 shortlisted teams from the preliminary rounds(10+ participated teams from Hong Kong, England, Mainland China)

- Operated with the Cyber Range platform provided by the CyberBit, detected the simulated cybersecurity attack and investigated on the incident, accessed into different computer machines to mitigate the cybersecurity risks

The Hong Kong Techathon 2021- First Runner-up(Theme: New Generation Technology)   2021 Jan

- Worked Collaboratively as a team and had brainstormed a commercial project with technological elements and the majority of its technical details

- Assisted to create project demonstration video for the brainstormed project, being shortlisted from **60+ participating team** for the panel pitching and awarded with the First-Runner up among the 15 final teams, Admission Opportunity to the HKU iDendron Start-up Funding Scheme(Attained Award list from PolyU website)

The Google Developer Student Club(PolyU)-Founded and Core Committee Member   2020 Sep – 2021 Aug

- Being interviewed by Google Developer Group's lead and shortlisted by its members for organization establishment at PolyU, event management and discussion
- Promoted the information of the club to the PolyU's staff, students and the public audience

PolyU UG Summer Research Abroad Sponsorship@MIT 2020/21-Shortlisted Finalist(10 out of 400+ classmates among the   2021 July
whole year 2 and 3 students in the Department of Computing, PolyU)

The Hong Kong Cyber Security New Generation Capture the Flag Challenge 2020(HKCERT CTF 2020)-First Runner-up   2020 Nov
- Worked Collaboratively within a team of other 3 EIE undergraduate students to represent PolyU to obtain First Runner-up out of **69 team** under the tertiary institution category

- Assisted to solve over **40 challenges** within 48 hour related to Computer System and Network Security, Cryptography by researching write-ups for solving the information security challenge on the Internet, various security testing tools, programming languages and mathematical knowledges
(Result from CTFtime) (Attained Award list from PolyU COMP website) (News 1 | News 2 | News 3 | News 4)
HK PolyU Capture-the-Flag(CTF) Computer Security Team(aka. NuttyShell) – **Founded Core Team Member**   2019 Nov - 2022 Sep
- Competed in the PolyU CTF Qualifier Contest 2019 and being ranked as no.6 over 25 contestants in order to be shortlisted to join the team
- Attended and Received Regular Training on Computer System, Network Communication Security and Cryptography (Supervised and Coached by Mr. Hopkins Kong Chun Ho, Guided by Dr. Haibo Hu)
- Being selected to represent PolyU CTF team(aka. NuttyShell) to participate and compete in International, National and Regional Cyber Security Competitions

HK PolyU ACM Programming Group–Team Member 2019 June - 2021 Sep

-Being shortlisted by Department of Computing, PolyU to join the team and Received Training on Data Structure, Algorithm, Competitive Programming(Guided and Supervised by Dr. Ken Yiu, Coached by Mr. Shan Jiang)

-Completed the Online Competitive Programming Training problems(Online Training Platform Profile) and participated in the **IEEEXtreme 17.0** Global Programming Competition(Team Rank: World Top 0.002%) with the PolyU ICPC group's teammates(Mr. Yufan XIANG and Mr. Guanhe FU)

RESEARCH PROJECT AND PUBLICATIONS

Research Interest: Quantum Computing/Quantum Information Science, Quantum Physics, Computer Vision, Neural Style Transfer, Computer System Security and Cryptography

[1]**Man-Kit, Tang**."An Interactive Neural Network-Based System for Confined Stylization of Product Design". Proceedings of 12 th International Conference on Design and Semantics of Form and Movement (DesForM 2023). July 2023. (**Accepted, Already Being Demonstrated on the Conference Presentation**) (Developed Code in GitHub) (**CCF-B** level paper)

[2] **Man-Kit, Tang "**A study on Big Data and its applications for Smart City : Opportunities and Challenges". In: International Conference on Smart Livings 2022 (ICSL2022-016).2022 (**Accepted**, To appear in the Conference).

MISCELLANEOUS

Applied Position: Software Engineering Intern/Software Engineer

Recommendation: To be confirmed later

Notification Period: Immediate

Expected Salary: 18500-23000 HK Dollar(Negotiable)