

JAM KHAN

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EDUCATION

Northeastern University BS Computer Science and Math	Boston, USA Jan 2024 - May 2024
University of Hong Kong (Full-Tuition Scholarship) BEng Computer Science and Math	Hong Kong SAR Sep 2021 - June 2025
Nixor College (Full-Tuition Scholarship) GCE A-levels 4 A*s & 2As (Regional Distinction in Physics and Computer Science)	Karachi, Pakistan Sep 2018 - July 2020

WORK EXPERIENCE

Department of Computer Science, HKU <i>Student TA (Object-Oriented Programming)</i> <ul style="list-style-type: none">Conducted tutorials on Java and supported 30+ students on their assignments using Java Swing and Object-Oriented Programming.	Hong Kong SAR Sep 2023 - Dec 2023
<i>Student TA (C/C++)</i> <ul style="list-style-type: none">Handled assignment rebuttals and conducted weekly tutorial sessions on Linux, Shell, and C/C++ for 30+ students. Also, provided support to students for their course projects.	Jan 2023 - May 2023
ActusRayPartners Limited <i>Software Engineer Intern</i> <ul style="list-style-type: none">Utilized SQLAlchemy, Pandas, and MSSQL to develop an internal Python DB management library. Enhanced efficiency by 40%, mitigating data corruption risk for Quant algorithms.Integrated VBA and Flask to enable saving and loading functionalities in trade tech. Ensured synchronization between traders and minimized data discrepancy by maintaining real-time updates.Tested different Quant strategies using data from Marquee GS API, Bloomberg Terminal, and FactSet.	Hong Kong SAR June 2023 - Aug 2023
All Round Education Academy <i>Software Engineer Intern</i> <ul style="list-style-type: none">Developed a full stack prototype of a revision platform for IB students, deployed to 20+ users, using NextJS, TailwindCSS, Firebase, Auth0 and Redux. Deployment Link	Hong Kong SAR March 2023 - May 2023
HKU Sleep Lab <i>Research Assistant (Mobile App Development)</i> <ul style="list-style-type: none">Revamped legacy Android app using Java and Android Studio, migrating to AndroidX. Integrated ExoPlayer, optimized performance with caching, reducing server load by 80%.Developed iOS app in Xcode using Objective-C. Resolved audio and video player issues through library updates. Formulated migration plan to Swift for future enhancements.	Hong Kong SAR March 2022 - Oct 2022

SKILLS

Programming Languages:	Python, Java, C/C++, JavaScript, Haskell, Racket, Dart, VBA
Frameworks:	NextJS, ReactJS, ExpressJs, Flutter, Android Studio, TailwindCSS
Course Work:	Algorithms, OOP, Systems, Database, Networks, Functional Programming, Number Theory, Quantum Information, Multivariable Calculus, Proofs, Linear Algebra, Programming Languages Theory, etc.

PROJECTS

Linux Shell C Linux shell with process creation, command execution, and support for up to 5 pipes.	Github Link
Card Game Java, Swing, OOP Multiplayer Card Game with GUI for Big Two game.	Github Link
FlyMate Mobile App Flutter, Dart App for providing travel support to people with disabilities, developed during Cathay Hackathon '23.	Github Link
NFT Platform Mobile App Flutter, Dart Prototype of an NFT marketplace with social media.	Github Link

HACKATHONS

Cathay Hackathon '23 Won 2nd runner up out of 250 teams for developing an app to support travel for people with disabilities.	Cathay Pacific Nov 2023
CodeForGood Hong Kong Developed a Web App using MERN Stack. Got selected out of 1000+ applicants.	J.P. Morgan Oct 2023
JaneStreet ETF Challenge Developed a trading bot and deployed on EC2 server which competed based on profit.	JaneStreet Oct 2023