

# Seokhyeon (Sean) Hong

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## Skill

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Programming: C++, Typescript, Javascript, Python, Java, SQL

Web: HTML, CSS, Flask, FastAPI, React, Django, Apache, Nginx

App: React Native, Expo, Swift, SwiftUI

Tech: Git, VSCode, IntelliJ, Trello, Microsoft Office, Xcode, Jira, App Store Connect, Firebase, Supabase, Google Play Console

Certification: Microsoft Azure Certified / Bloomberg Market Concept / AmplifyME Finance Accelerator

Languages: Korean: Native, English: Proficient [Toefl: 111 / SAT: 1510], Arabic: Intermediate, Chinese: Beginner

## EDUCATION

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**The Hong Kong University of Science and Technology** – Hong Kong

*Expected May 2026*

· *Dual Degree Program in Technology and Management; B.Eng. in Computer Science and B.B.A. in Finance*

· **GPA: 3.675/4.300**

· *Honors: Dean's List (Fall 2020; Spring 2021; Spring 2024; Spring 2025)*

· *HKUST Academic Scholarship (2020~2021; 2023-2024; 2024-2025)*

· *Relevant Coursework: COMP3711 Design and Analysis of Algorithms; TEMG3950 - Case-based Problem Solving; COMP3511 - Operating Systems; FINA4303 - Fixed Income Securities; FINA3303 - Corporate Finance*

## Work EXPERIENCE

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**Centre of Advanced Power and Autonomous System, HKPC** - *Winter Innotalent Program*; Hong Kong

*Dec 2025 – Jan 2026*

· Developed voice command system and agentic AI for an autonomous robot vehicle using Python, C++, and Microsoft Azure

**Sagadigits Group** – *AI/ML Developer Intern*; Hong Kong

*June 2025 – August 2025*

· Developed an AI system that tracks workers at outdoor construction sites, governmental agencies, and indoor positioning using YOLO and OpenCV for object detection and AI Chat Services, developing agents, RAG, and implementing Guardrails

· Developed, deployed, and maintained website and server using React, TypeScript, PostgreSQL, GraphQL, Nginx

**Panoptic AI** – *Software Development Intern*; Hong Kong

*June 2024 – August 2024*

· Developed software development kit retrieving vital signals with 98% accuracy from camera on Raspberry Pi 3B using C++ and created an optimized Algorithm that is compact that provides stable services in Linux environment with 1GB memory usage.

· Developed an algorithm that retrieves vital signals using night vision camera using python and proof of concept SDK.

**Republic of Korea Army** – *Sergeant Squad Leader, IT Team*; Korea

*May 2022 – November 2023*

· Led squad of 14 members as sergeant squad leader and coordinating with different squad and create tactics for the squad.

· Served as IT administrator of Brigade, managing Router, Switch, Website, and Server, controlling C4I system for the brigade

· Commendations: Certificate of Honor / Commendation from 3298 Unit Commander / Top C4I trainee at Army Signal School

**BMW Service Center Bucheon** – *Assistant Mechanic*; Korea

*June 2019 – July 2019*

· Assisted daily operations of service center that services 120 cars a day, fixed engines, transmission, and powertrain modules

· Researched system failures and fixed the electronic and mechanical system using BMW AIR/ISTA applications

## Projects/ENRICHMENT EXPERIENCE

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**TEMG49500 – T&M Consulting: Next Intelligent Wealth Advisor for UBS** – *Full Stack Developer*

*February 2025 – May 2025*

· Achieved 1st place in developing a prototype of its Next Intelligent Wealth Advisor to integrate AI services to their chat services and portfolio recommendation services from news and portfolio, and expedite KYC procedures for UBS Wealth Management

· Developed an AI augmented chat leveraging qwen to accelerate chat with clients through RAG, reducing chat time by 50%

**USThing** – *Head of Application Development Team*

*January 2021 – Present*

· Leading application development team of 16 to develop and maintain an all-in-one mobile app for HKUST community, increased 6K active daily users to 12K active daily users with revamps and introduction of new features Website: <https://usthing.xyz>

· Migrated to React Native from swift and kotlin over 2024 summer to improve cross platform compatibility

**HKUST Undergraduate Recruitment & Admissions Office** – *Head Student Ambassador*

*January 2021 – Present*

· Represents HKUST at several conferences and hosts public speaking sessions to draw prospective students' attention

**Senate Committee on Teaching and Learning Quality** - *UG Representative nominated by HKUST*

*October 2025 – Present*

· To advise and make recommendations to the Senate on policies, regulations, and guidelines relating to the quality assurance of teaching, learning, and assessment by taking into account the University's overall interest.