

**Ma Wing Kin, Paul**

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## EDUCATION

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- **City University of Hong Kong** Hong Kong  
*Bachelor of Science in Computer Science, Expected Graduation Date: 06/2023* *Sep 2019 – Present*

## EXPERIENCE

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- **GOGOX** Hong Kong  
*Software Engineer, Part-time* *Sep 2022 – Mar 2023*
  - Set up the design library in Flutter, provided features like Dark Mode and application for widget Showcase. Also added a CI/CD workflow with Codemagic, included deployment in App Distribution and CI build for pull requests
  - Created a Flutter plugin that support per-app language preference with platform-specific code in Swift and Kotlin
  - Increased >15% test coverage in Flutter app. Optimized logging with Crashlytics and Performance Monitoring
  - Used React Flow to modify workflow transitions in the admin portal, and Dagre to display graphs with auto layout
- **GOGOX** Hong Kong  
*Software Engineer, Intern* *Jun 2022 – Aug 2022*
  - Added >10 database models in the admin portal. Created APIs and unit tests in the backend with nest.js and Typescript. Integrated them in React using Next.js, RTK Query, React Hook Form and JOI
  - Developed a MVP in Flutter for tracking online orders which integrated Firebase and Google Sign In
  - Exported designs automatically with Style Dictionary to solve the incompatibility between Figma and Flutter
- **Hospital Authority** Hong Kong  
*Programmer, Intern* *Jul 2021 – May 2022*
  - Developed an internal tool that supported several file formats to find matching IP using Python
  - Exported data to the desired format and performed data visualization with Pandas and Openpyxl
  - Set up Cron Jobs for Email automation with Github Actions and Python

## PROJECTS

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- **Personal Website | AWS, Terraform**
  - Utilized Terraform to define infrastructure, apply changes in resources automatically with a CI/CD pipeline
  - Used API Gateway, AWS Lambda and DynamoDB to build a Serverless API for counting visitors
  - Configured Cloudfront and Cloudflare to serve the website on S3 bucket with a custom domain
- **Leetcode Helper | Github Actions, Nginx, Oracle Cloud, React**
  - Implemented unique features such as acceptance filter with Debounce and question tags toggle
  - Deployed a dockerized application to Oracle Cloud, set up Nginx for reverse proxy and HTTPS
  - Used Github Actions to fetch new Leetcode questions every day and updated the cloud database
- **CityU Downloader | Docker, Github Actions, MongoDB, React, Python**
  - Supported every combination of course name/year/subject for searching exam papers, which saved more than half the steps required to download CityU exam papers
  - Created integration tests for both frontend and backend, have >90% test coverage

## PROGRAMMING SKILLS

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- **Languages:** C++, Dart, Java, Javascript, Python, SQL, Typescript
- **Technologies:** AWS, Docker, Flutter, Firebase, Github Actions, MongoDB, NestJS, Next.js, Nginx, PostgreSQL, React, Spring Boot, Terraform

## ACHIEVEMENTS

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- 1 Kyu on Codewars, ranked top 100 for kata completed, solved 1900+ problems
- Completed Advent of Code 2021 and 2022, placed top 100 in several days
- Represented Hong Kong in 2017 CCGS SEA, a Clash Royale tournament, won 1500 USD