Introductions (5 minutes)

We want to know more about you and **how your experiences and interests align with our mission**! Prepare a concise, interesting description of who you are, where you've trained and worked, and what your areas of expertise are.

Entrepreneurial mindset: **identifying new features, products, and business opportunities and enable partner businesses to realize the full potential of those opportunities**

**Like what my role in HKMA**

working closely with our external clients and partners across many industries

FB changed to Meta:

1. builds technologies that help people connect, find communities, and grow businesses.
2. beyond 2D screens toward immersive experiences like augmented and virtual reality to help build the next evolution in social technology
3. create a safe and respectful online space

My answer:

I hope the week has been good for you

I am Orion, I am here today to interview for the position of Solution Engineer. I have been working in IT related fields for about 7 years. And my areas of expertise are project management and software development. I am experienced in building end-to-end system and introducing software tools to help business users to reduce personnel hours for repetitive tasks and to improve their ability to explore data for better decision-making process.

As a person, I always believe in the spirit to keep learning and growing. I believe there’s always a way to do things better. Recently, I completed an online professional certificate in data science from HarvardX with a capstone on sentimental analysis of customer reviews on tripadvisor. These are the sectors I am familiar with and I believe my mentality fit for your culture to move fast and break things and have the right skill sets to work in your company.

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who you are

You can call me Orion, and ze Financial Market Infrastructure Department in the HKMA. Our main function is to develop and maintain information system to record all the transaction and trade in the HK market. We designed the end of day routine to ensure data integrity for information exchanged with settlement systems in local and overseas markets and also to generate report consumed by our business for their regulatory practices.

what your areas of expertise are – move fast and break things

My role is a key R&D colleague to bring to the fore, any new technology that improve or provide solutions to our business needs. Currently, I lead two projects. The first one is to introduce Tableau, Data Visualization Tools, to the department with the goal to improve business users abilities to explore the raw data. We talk business users to understand data processing and presentation habits. At the same time, we organized workshops to guide user to work with it. For the other project, I lead a team of three to develop automation program in Python which eliminates user’s manual hours in preparing those reports

As a person, I always believe in entrepreneurship spirit to keep learning and growing. I believe there’s always a way to do things better. That’s why the position of software engineer in Meta is an exciting opportunities to me as all we know the company is famous for its mentality to move fast and break things. Especially, the statement move into metaverse. I am also an investor of NFTs and It will be glad to see myself contributing to one of the best virtual world to unleash more business opportunities and more importantly to help people to connect. I hope I could your company/team to make things happen.

Metaverse, avatar, virtual world, next internet augmented reality or virtual reality

Individuals owns the internet by cocreate values with the blockchain technologies

Coding (35 minutes)

You'll solve two coding problems focused on CS fundamentals like algorithms, data structures, recursions, and binary trees. If your tech screen is by phone, the engineer will send you a collaborative editor (such as [coderpad.io](https://coderpad.io/)). If your tech screen is in person, you'll use a whiteboard.

Practice practice and practice

* FB tech screen guide
* Make sure you understand the question. Read the question back to your interviewer and ask any clarifying questions. An interview is a two-way conversation; feel free to ask questions you might have.
* Take time to consider your approach instead of rushing through your solutions. For example, on a tree question, you'll need to choose between an iterative or a recursive approach. It's OK first to use a working, unoptimized solution that you can iterate on later. Talk through your thinking and processes out loud. This can feel unnatural, so be sure to practice beforehand.

Compare solutions

* Test your code by running through your problem with a few test and edge cases. Again, talk through your logic out loud when you walk through your test cases.

Ability to consider test cases

* Think of ways your solution could be better, and try to improve it. When you’ve finished, your interviewer will ask you to analyze the complexity of the code in Big O notation. Walk through your code line by line and assign a complexity to each line.

Complexity Calculation

Answering Your Questions (5 minutes)

Take this brief opportunity to learn more about working at Facebook from an engineer's point of view. Think about what you find interesting and challenging about the work you'd be doing here or what challenges you're most interested in solving.

Technical Interview

• Communication.

Are you asking for requirements and clarity when necessary, or are you just diving into the code? Your initial tech screen should be a conversation, so don’t forget to ask questions.

• Problem solving.

We’re evaluating how you comprehend and explain complex ideas. Are you providing the reasoning behind a particular solution? Developing and comparing multiple solutions? Using appropriate data structures? Speaking about space and time complexity? Optimizing your solution?

• Coding.

Can you convert solutions to executable code? Is the code organized and does it capture the right logical structure?

• Verification.

Are you considering a reasonable number of test cases or coming up with a good argument for why your code is correct? If your solution has bugs, are you able to walk through your own logic to find them and explain what the code is doing?

Be honest with yourself—only you know how much prep time you’ll need. Make the most of your prep time by following these steps to plan your approach before you start practicing.

• Schedule time to study and practice.

Block out time every day to write code. Target medium and hard problems.

• Prioritize breadth over depth.

It’s much better to practice solving fewer example problems of many problem types than to become very familiar with one type at the expense of the others.

• Set aside time to review what you’ve practiced.

As you solve problems, make cheat sheets or flash cards to review later. Revision and repetition will strengthen your understanding of core concepts.

• Remember your goal.

Aim for confidently solving two questions—while thinking aloud—in about 35 minutes

2. Use key practice strategies to practice effectively

Reading through sample questions, recognizing concepts, and having a vague understanding of these concepts won’t be enough to help you shine. You need to practice! Make sure you’re setting your practice sessions up for success by following these tips from engineers who’ve been through the process.

• Practice coding the way you’ll code during your tech screen.

Use CoderPad. io if your interview is via phone or video call, or use a whiteboard or pen and paper if your interview will be in person. Check with your recruiter if you’re not sure which format you’ll use.

• Set a time constraint when you practice problems.

In your tech screen, you’ll be asked to solve one or two problems in under 35 minutes. Practice coding solutions to medium and hard problems in less than 15 minutes each to help you be ready for the constraints during the interview.

• Code in your strongest language.

Provide the most efficient solution, and find and fix the bugs yourself.

• Practice talking through the problem space and possible solutions before you dive in, and talk through your decisions out loud as you code.

Interviewers will be evaluating your thought process as well as your coding abilities. Explaining your decisions as you code is crucial to helping them understand your choices. The more you practice this, the more natural it will feel during the interview.

3. Understand the types of problems you may encounter Practice a variety of different problems—and understand why we ask them—so you’re prepared to solve them during your interview.

• Don’t be surprised if the questions sound contrived. Problems may be different than what you’re probably tackling in a day-to-day job. We won’t ask a “puzzle” question, but questions may be different than real-world questions because they need to be described and solved in 10-20 minutes.

• Problems may assess the depth of your knowledge and your versatility. For example, your interviewer might ask you to solve a problem any way you want. Then, they could add constraints on the running or space characteristics and ask you to solve it again.

• Problems may focus on edge cases. You might be asked to parse some data format or mini language. Your answers demonstrate your ability to handle multiple states in your head.

• Problems may test how well you know how things work under the hood. For example, you might be asked to implement well-known library functions

**Walk me through your resume**

General: make to change, intrapreneurship

I graduated with a dual degree in Computer Engineering and Marketing. There are three driving forces when deciding my career direction:

1. First : I grew up in a single family with social security assistance. I fought against adversity with a lot of positivity and helps from people surround us. And this becomes my career aspiration to offer helps to youth in need give back to the society – a life purpose to great a social impact to **the under privileged communities;**
2. Second: Growth mindset. Don’t stop growing and learning. There is always a way to do it better. Dare to Dream big and you can do it as well;
3. Third: A place that can leverage most of the knowledge and experience I learnt. I graduated with a dual degree in Computer Engineering and Marketing. I would like to leverage my knowledge of both disciplines instead of specializing in one field.

**Why Start with a small firm?**

I chose to start my career in a small health care solution company which is in need of talents in both business planning and engineering. It worked well and at that time, there is a growing concern on the protection of data and the government has impose policy on social enterprises to convert all paper form into digital records with audit trails. But many of these social enterprises are usually without any IT department and therefore lack of knowledge to fulfil the new government requirement. I helped the company to remodel their products into a subscription-based product which can be employed by client easily in a flexible manner. The product solved the problems for over 20 clients in less than a year.

- Why small business -> then why large business, is it explained well or still contradicting?

**Why NGO? Why you stay there for 5 years?** Growth, bigger impact, better exposure to new things

After

Entrepreneurship Services

There is a blooming economy for startup in Hong Kong. Many of those incorporate Technologies into business which I found that an opportunity in this field will a fit for myself.

For NGO, most of our position under contract terms subjected the programme duration. To survive, we need to sustain our fundings by pitching to funders for new projects and monitor our operating expenses

Shortcomings:

Really love the organization

* Want to contribute better
* Want to lead a projects
* Want to start something new

I developed a close relationship with one of deputy executive director. We discuss about my career prospect in the organization. He told there is opportunity

HQ IT

After the training, I was promoted to project manager

PM at M21 Multimedia Services, which is operating under a 9mil hkd millions each year

With a focus on

Covid hit everyone badly. Many business and households suffered and the Government and all NGOs were under pressure for not coming up any welfare scheme. After a week of brainstorming, we notice a upcoming needs for solutions when schools switching to online teaching. I was assigned to manage this project. In 2 week time, we got our proposal approved by a charity fund and lined up with Zoom and telecom providers

Policy makers, shape the society.

**Why Central Bank, public sector, Why my division?**

To learn to be a change maker for corporate, which is unarguably the pillar of one of largest market in the world whose work is in a city’s best interest

HKMA is literally one of the most . Any decision make by change could be

My division is a completely new department of HKMA which focus on

I knew it was a chance for me to have hands-on experience the complexity of introducing data culture to , the communication skills that the executive reasons with all the colleagues to make beliefs in something that’s yet without any solid ROI, and the strategic planning in organization setup to facilitate these changes happen.

I felt this ride with the HKMA can equip me with the

**Why MBA**

Sounds like BS, whoever works hard can succeed. How long does it takes, What’s next?

Tech plus Business that’s because they have the time to monetize it?

Meeting the great people, in class, but also outside of the class, the network with alumni and elite from other discipline in a great school with strength across subjects.

Eg. I have been to Cambridge for a short exchange tour. The college system

I fully understand the importance of it

I believe the importance of Networking are what MBA meant to be

Great inspiration from Dr. Vivian Wong, a great alumna of my college, the past CEO of the Hospital Authority of Hong Kong, and also served as a specialist in World Bank

I met her in Networking event that I organized for my students in St. John’s.

She shared her project experiences in World Bank. Data science -> area in valley with great humidity that suitable for the growth of a herb for making an expensive Chinese medicine.

This was the first time I thought of a stage of working in an intergovernmental organization to learn and to fulfil my aspiration for greater social impact.

Generalist instead of specialist

I hate follow same practices

Main lessons, challenges 受壓 非受壓

Auto-run