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| **Interviewer:** | | Kenny Li, Ming Hsieh, Ryan Hsiao | | | **Date of Interview:** | | Sep 23, 2020 (1 hour) | | |
| **Candidate Name:** | | Prins Wu | | | **Applied Position:** | | Enterprise Imaging Team, Intermediate Developer (SDE-2) | | |
| **Recommendation:** | | Fit position: , Not fit applied position but may fit others: , Reject | | | | | | | |
| **Overall:** | | | | | | | | | |
| **Scale:** | **5** – Excellent | | **4** – Strong | **3** – Average | | **2** – Weak | | | **1** – None |
| **Soft Skills Questions/Assessment** | | | | | | | | **Rating** | |
| **Topic: English communication**  **Assessment:**   |  |  |  |  | | --- | --- | --- | --- | | **Items** | **Rating**  **(1-5)** | **Items** | **Rating**  **(1-5)** | | Verbal Discussion | 3 | Technical Discussion | 3 | | Listening | 3 | Concise and precise | 3 |   **Comments:** many side projects? Work projects. What kind of position are you looking for manager / developer? Favourite is coding. Likes to share experience with junior team members. Do you have interest in the medical sector? Love system can connect to real people. Like cloud, distributed system. Imaging Fellow more interested, no csharp experience. IntelliJ java. Javascript react/nodejs one years. Mostly programmer, enterprise ERP systems, spring boot, hibernate ORM JPA, oracle, postgresql, mysql, kafka log collector ELK kibana view logs, event queue system publish message consume message, redis centeralize cache server Prize box and how gets the prize, did you setup the kafka, redis servers? React for partner company create name logo and activity backend nodejs/express. Team leader acer 12 engineer 15 in china communicate with analysis write document and collect requirements host developer meeting, gamania. Approach to learning new skills map java to javascript. Write on medium and share knowledge. | | | | | | | | 3 | |
| **Topic: Leadership**  **Assessment:**   |  |  |  |  | | --- | --- | --- | --- | | **Items** | **Rating**  **(1-5)** | **Items** | **Rating**  **(1-5)** | | Project Management Skill | 2 | People Management Skill | 3 | | Mentoring | 3 | Hiring | 3 | | Team Organization | 0 | Decision making | 0 |   **Comments**: lead a team of around 20 members at acer. Hosted standup meetings. Setup training process. Hiring experience? Yes recruited 20 candidates. Have pm to manage project. | | | | | | | | 3 | |
| **Topic: Tell me a best teamwork example in your previous working experience?**  **Assessment:**   |  |  |  |  | | --- | --- | --- | --- | | **Items** | **Rating**  **(1-5)** | **Items** | **Rating**  **(1-5)** | | Collaboration | 0 | Customer Facing | 0 | | Influence | 0 | Social skills | 0 | | Self-awareness | 0 | Teamwork | 0 |   **Comments**: xxx | | | | | | | |  | |
| **Topic: Positive Attitude**  **Assessment:**   |  |  |  |  | | --- | --- | --- | --- | | **Items** | **Check** | **Items** | **Check** | | Confidence | Ö | Cooperation |  | | Courtesy |  | Energy |  | | Enthusiasm | Ö | Friendliness | Ö | | Honesty |  | Humorous |  | | Patience |  | Respectfulness |  | | Hard-working |  |  |  |   **Comments**: xxx | | | | | | | | 3 | |
| **Technical Skills Questions/Assessment** | | | | | | | | **Rating** | |
| **Q: Tell me about a case when you handled a technical challenging situation and its system/team’s background?**  **Assessment:**   |  |  |  |  | | --- | --- | --- | --- | | **Items** | **Rating**  **(1-5)** | **Items** | **Rating**  **(1-5)** | | Challenging complexity | 3 | Learning Ability | 3 | | Clear/Concise/Precise Expression | 3 | Execution Efficiency | 3 | | System Design | 0 | Architectural Design | 0 | | Problem Solving | 0 |  |  |   **Comments:**  Coding test – not too difficult. Gamania prize box Chinese new year 1M first version database performance 1s/100 records then crash, prepare data 8 hours, transfer data schema, pk which box is parent, create parent create child long integer primary key, nodejs -> kotlin, use memory to create prize box, batch insert, batch update 100 000, 8 hours > 200s, more promotion many requests create datastructure in redis, 1s/2000. | | | | | | | | 3 | |
| **Q: Tell me about a cloud development case?**  **Assessment:**   |  |  |  |  | | --- | --- | --- | --- | | **Items** | **Rating**  **(1-5)** | **Items** | **Rating**  **(1-5)** | | AWS | 3 | GCP | 2 | | Azure | 2 | Others | 0 | | System Design | 0 | Architectural Design | 0 | | Complexity | 0 |  |  |   **Comments:**  Did you build the Kafka system yourself? Did not setup system. Distributed system How does it make sure data is available? Azure – k8s, postgresql, kafka, redis, devops version control, have to write yaml. Deploy script. AWS – EC2, S3. GCP – colab. Have another team, devops. Collegaue – so su Hom | | | | | | | | 2 | |
| **Q: Tell me about your understanding of CI and CD, and what’s the difference between them?**  **Assessment:**   |  |  |  |  | | --- | --- | --- | --- | | **Items** | **Rating**  **(1-5)** | **Items** | **Rating**  **(1-5)** | | CI | 3 | CD | 3 | | Jenkins Pipeline Concept | 0 |  |  |   **Comments:**  Continuous Integration – coding test requirement output, Continuous Deployment – deploy to right environment. Azure yaml scripts. Jenkins and robotframework. | | | | | | | | 3 | |
| **Q: Tell me about your understanding of OOP principles?**  **Assessment:**   |  |  |  |  | | --- | --- | --- | --- | | **Items** | **Rating**  **(1-5)** | **Items** | **Rating**  **(1-5)** | | Encapsulation | 3 | Abstraction | 3 | | Inheritance | 3 | Polymorphism | 3 |   **Comments:**  Inheritance – child extend from parent, encapsulation – different scope private, polymorphism – same method different parameters, abstraction – abstract key word can real method, interface only definitions. | | | | | | | | 3 | |
| **Q: Have you ever used the Design Pattern before?**  **Assessment:**   |  |  |  |  | | --- | --- | --- | --- | | **Items** | **Rating**  **(1-5)** | **Items** | **Rating**  **(1-5)** | | Singleton | 3 | Factory | 3 | | Inheritance | 0 | Dependency Injection | 0 |   **Comments:**  Factory – create some objects. Singleton – one jvm only one instance private constructor. | | | | | | | | 3 | |
| **Coding Questions/Assessment** | | | | | | | | **Rating** | |
| **Q:**  Given one integer  for each digit in this integer, print “foo”+digit as output  for example, input: 2278 => output “foo2foo2foo7foo8”.  Don’t use String object  A:  public class First {  public static void main(String[] args) {  int val = 2278;  int rem = 0;  StringBuilder sb = new StringBuilder();  do {  rem = val % 10;  val /= 10;  sb.append(rem).append("oof");  } while (val > 0);  System.out.println(sb.reverse().toString());  }  }  **Assessment:**   |  |  |  |  | | --- | --- | --- | --- | | **Items** | **Check** | **Items** | **Check** | | Use of modulo | v | Use of StringBuilder | v |   **Comments:**  The candidate solved this problem in 8 mins. We didn’t give him any hint. He is familiar with this kind problem. | | | | | | | | 4 | |
| **Q:**  Given an array with n integers in the range [0 – n-1], find a way to figure out if there is a duplicate number within the array.  **A:**  public class Second {  public boolean checkDuplicate(int[] ary) {  Set<Integer> duplicateSet = new HashSet<>();  for (int i = 0; i < ary.length; i++) {  if (duplicateSet.contains(ary[i])) {  return true;  }  duplicateSet.add(ary[i]);  }  return false;  }  public static void main(String[] args) {  int[] a = new int[] {1,2,3,4,4};  int[] b = new int[] {1,2,3,4,5};  Second s = new Second();  System.out.println(s.checkDuplicate(a));  System.out.println(s.checkDuplicate(b));  }  }  **Assessment:**   |  |  |  |  | | --- | --- | --- | --- | | **Items** | **Rating**  **(1-5)** | **Items** | **Check** | | Use of Collection | 3 | Avoid double for-loop | v |   **Comments**:  The candidate solved this one in 6 mins. | | | | | | | | 4 | |
| **Q:**  Find the count of the most frequent item of an array.  Complete the function to find the count of the most frequent item of an array. You can assume that input is an array of integers. For an empty array return 0  **A:**  import java.util.\*;  public class Kata {  public static int mostFrequentItemCount(int[] collection) {  Map<Integer, Integer> map = new HashMap<>();  int maxCount = 0;  for (int i = 0; i < collection.length; i++) {  if (!map.containsKey(collection[i])) {  map.put(collection[i], 0);  }  Integer count = map.get(collection[i]);  count++;  map.put(collection[i], count);  maxCount = Math.max(maxCount, count);  }  return maxCount;  }  }  **Comments**:  The candidate solved this one in 10 mins. | | | | | | | | 4 | |
| **Q:**  **Please design a hybrid cloud architecture/solution for a company that need to migrate their product to the cloud.**  **The architecture/solution should consider about:**   1. **Business continues without service impact** 2. **Migrate step by step** 3. **Security, Maintainability, Extensibility, Scalability, Reliability, and Availability**   **Assessment:**     |  |  |  |  | | --- | --- | --- | --- | | **Items** | **Rating**  **(1-5)** | **Items** | **Rating**  **(1-5)** | | Operational Excellence | 3 | Security | 3 | | Reliability | 2 | Performance Efficiency | 3 | | Cost Optimization | 2 |  |  |   **Comments:**  The candidate knows how to collect elements quickly. But he couldn’t explain clear about those red lines among servers and dbs. | | | | | | | | 3 | |