Ander Wang

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Senior Backend Engineer

Backend engineer with 4 years of developing and optimizing large-scale systems for low latency services. Proficient in Java and Amazon Web Services (AWS), I have tuned API performance and led the development of 4 services using the Spring framework. Additionally, I have contributed to the seamless migration of on-premise applications to containerized services on AWS. As a self-motivated learner, I am committed to enhancing large-scale systems by prioritizing scalability, performance, and minimizing latency and resource usage.

Experience

Backend Engineer, Gemini Data   *Aug 2020 – Present | Taipei, Taiwan*

- Optimized graph API read performance by implementing multi-level caches to increase hit rate and redesigning query to reduce latency.
- Optimized resources usage of Java application to reduce the number of living I/O threads and object allocations, reducing peak used heap space.
- Developed graph query API on Neo4j with multi-tenant data sources in Kubernetes on AWS.
- Designed data store solution to reduce 40% storage cost by leading development of multi-tenant backup service.
- Containerized and deployed microservices to Kubernetes on Amazon Web Service by developing AWS Cloud Develop Kit and optimizing docker image size 40%, building time 30%.

Software Engineer, Change Healthcare   *Nov 2018 – Jul 2020 | Taipei, Taiwan*

- Led development of validating data quality pipelines in Java on AWS using Glue, S3, Lambda and optimizing for saving cost by utilizing asynchronous AWS client and cache mechanisms.
- Designed testing models to adapt diverse data formats and testing targets.
- Developed CI/CD pipelines using Jenkins, TestNG, Rundeck to operate data quality pipelines.

Backend Engineer, Watter Tech.   *Apr 2018 – Sep 2018 | Taipei, Taiwan*

- Researched and implemented faster density-based clustering algorithms in Scala which running on Apache Spark to analyze user daily behavior and trajectory to discover safety zone for mobile user.
- Optimized data selection algorithm to reduce 80% size of data without losing precision on trajectory map by designing geographical grid methods.

Skills

Languages: Java (Expert), Scala, Python
Database: MySQL, Redis, Neo4j
Other: Spring Framework, Kubernetes, AWS

Education

National Chiao Tung University   Hsinchu, Taiwan
Attended, M.S. Electrical Engineering   *Sep 2015 – Aug 2016*

- **Summer Intern** at **Industrial Technology Research Institute** developed web crawlers for multiple shopping websites using Python, Selenium, MySQL, Django, Heroku.
- **Teaching Assistant** for **Cloud Computing and Big Data Analytics** including Scala, Apache Spark, IBM Infosphere, Hadoop, AWS EC2.

National Sun Yat-sen University   Kaohsiung, Taiwan
B.S. Management and Information System   *Sep 2010 – Jun 2015*