

Shao Xiaoping

Male | Age: 40 | Phone: 13816756087 | Email: xaopng.shao@gmail.com | Experience : 16 years

Edu: Master | Job: Architect/Technical Manager/Soution Architecture | Location: Shanghai

Summary

- 8 years of experience in cloud computing, with a deep understanding of distributed computing. Skilled in cloud services. such as k8s, docker, storage, databases, messaging middleware and caching. pratice experience in solutions like Flink, Kafka, Node.js, RocketMQ, Spring Boot, MySQL, HBase, Kubernetes, Docker, etc. Familiar with multiple cloud service providers including Azure, Alibaba Cloud, Huawei Cloud, and Google Cloud.
 - 8 years of experience in computer graphics with extensive experience in CAD software development. Understands rendering scene graphs, shaders and OpenGL topics. Experienced in direct modeling systems, familiar with key concepts and topology of BREP. Also has about 2 years of experience in image processing, mainly working at the rendering layer framework, with practice experience in optimizing and improving performance in terms of management of memory or CPU/time optimization.
 - Rich experience in building systems from scratch. Involved in architectural planning, database and frontend/backend technology selection, ci/cd setup, cost estimation and control etc. Experienced in leading small teams and seeking leadership positions in technology. Known for enjoying challenges and often viewed as a key member of the team.
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Work Experience

Oqton (Shanghai), Principle Software Engineer, 2022/04-Present

Primary Responsibilities:

- Participated in the R&D of the company's core SAAS product, the MOS (Manufacturing Operating System).
 - Mainly responsible for the IoT Pipeline and Alerts system. The IOT pipeline will collect the sensor datas from machines in factory, we will enrich the sensor data on cloud and produce value metrics accordingly.we could calcuate the Ulization,the Performance and OEE of machine and track the status of it and monitor the quality of building product and trigger alerts if possible.
 - Participated in the development of the MES (Manufacturing Execution System) and the company's new generation Configurable UI system (Page Builder). I decoupled the alerts system from using IOT stack(e.g. kafka/flink) to use Temporal as the backend and refined the variable systems which is critical to the success of new Configurable system.
- As a full-stack engineer capable of working in frontend, backend, and DevOps, who is the most broader engineer in Shanghai.
- As a senior expert, involved in company recruitment, actively reviewed code, solutions and produce design plans to achieve agreement. i also actively worked to improve team efficiency.

Achievements:

- Responsible for the Cost Reduce project in the IoT, optimizing resource use, significantly saving costs. Approximately 50% reduction in a single cluster.
- Significantly improved and stabilized the IoT Pipeline, greatly reducing the fault rate.
- Timely completed important challenging features, such as the Sensor Formula in the IoT system and the universal data modification tracking feature in the MES system.

Technical Keywords:

- React/Redux, TypeScript, ProtoBuf, Temporal, Flink, Kafka, Apache Kafka Stream, Node.js, ActiveMQ, Elasticsearch, Python
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Entrepreneurship, Partner, 2021/05-2022/04

Primary Responsibilities:

- Released an AI-based US stock analysis system. Daily, our website would publish system-calculated indicators and statistical data, and various robots would recommend stocks based on the previous day's market performance, targeting a next-day price increase of over 1%. Our robots achieved 80% success rate in backtests and actual outcomes.
- As the sole engineer, built everything from scratch, including the Flutter frontend, Rocket backend, subscription payments implementation (Stripe), DevOps deployment, and CI/CD construction.

Achievements:

- Deployed our stock analysis program on Google Cloud, gaining about 40 annual paying users.
- Also released a WeChat mini-program for book quotes, facilitating book annotations with voice input support.

Technical Keywords:

- Rust (Rocket), Flutter, MySQL, Google Cloud, Google Firebase, Stripe, WeChat SDK, OTS, OSS, Alibaba Cloud
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Glodon Company Limited, Technical Expert, 2019.1-2021/5

Primary Responsibilities:

- Led the backend team (5 people) to build the collaborative design data platform from nothing to launch. The platform support collaborative on multi-disciplinary BIM data for design, structure, and MEP. the systems consistent frontend web application and sdk for desktop, our core multiple services that devloped in k8s, at the data layer, we use Mysql and Hbase to store our data. we also have async system which integrate with RabbitMQ. the system host about 20T design data.we will also integrate with other services of company and others also integrate with us, i works as the leader and contact point to external teams.
- Participated in the company's BIM data standards creation, which enabled the multi-disciplinary data collaboration.
- As a pioneer, participated in the construction of the desktop SDK for the collaborative data platform and successfully integrated it into the company's desktop design software.

Achievements:

- Launched the BIM data collaboration platform (<https://gteam.glodon.com/>) from scratch, finished the national project requirement of 1000 concurrent users.
- An invention patent: Structured management method, device, computer equipment, and storage medium for BIM data. (CN202110074818.8)

Technical Keywords:

- K8S, SpringBoot, HBase/OTS, MySQL, OSS, Redis, RabbitMQ, Node.js, Three.js, C++, Alibaba Cloud/Huawei Cloud
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Microsoft (China), Senior Software Engineer, 2015.12-2019/1

Primary Responsibilities:

- Responsible for the data governance part of the Azure CDN service, including traffic billing data, log data, system monitoring data, and domain monitoring data. Managed the entire lifecycle of the data. which includes data collection, processing, store to usage by other systems. These data are crucial for the efficient operation of the CDN, such as intelligent route and peak bandwidth cutting.

Achievements:

- Processed approximately 2T of log data daily.
- Peak bandwidth was about 1-2T, distributed to about 5 CDN providers. We invented and developed "Intelligent CDN."

Technical Keywords:

- C# (MVC.net), Azure TableStore, Azure Blob, Azure Message, ElasticSearch, coreDNS
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Autodesk (China) , (Senior) Software Engineer, 2008.1-2015/12

Primary Responsibilities:

- Participated from scratch in the release of Inventor Publisher software, which creates assembly documents from 3D design models, responsible for the development of Annotations. Also participated in keyframe animation development.
- Deeply involved in the development of Inventor Fusion, responsible for many important modeling features such as Mirror/Pattern, Primitives, Extend, Patch etc. Understands direct modeling and the core modeling engine.
- Participated in the company's new mobile project, SketchBook Android development, responsible for the rendering part, innovatively used Tile-based refresh to improve drawing performance, supporting large canvas.
- Participated in the development of multiple versions of Pixlr, including Android and cross-platform projects, mainly responsible for the rendering part. Used GL Rendering to handle real-time camera image effects and offline saving.

Achievements:

- Built and released Publisher and Fusion from scratch, going through TP, Alpha, Beta, and production cycles. My work was highly praised by American leadership.
- SketchBook gained the first 1 million users, and Pixlr gained the first 10 million users. My work significantly improved software performance.

Technical Keywords:

- C#, C++, ASM/ACIS, Graphics (Rendering/Modeling), Java, Android, Image Processing, Cross-platform Development
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Educational Background

- Master's, Computer Science, Zhejiang University, Hangzhou, 2005-2007
 - Bachelor's, Computer Science, Hangzhou Dianzi University, Hangzhou, 2001-2005
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Certifications

- Computer and Software Technical Capability Certificate, 2004
- CET6: 550, Oral: C