

GUI-BIN PENG

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EDUCATION

Dalian Maritime University (211)

2014.09 - 2018.07

SAP Academy for Engineering (Internal Training)

2021.08 - 2023.07

TECHNICAL SKILLS

- Proficient in Node.js/TypeScript with a deep understanding of design details. Used Python, Java, and Golang.
- Solid knowledge of computer networking, including TCP/IP, TLS, HTTP/1.1, HTTP 2.0, cross-origin issues, HTTP caching, and message pushing. Presented technical talks on various networking topics.
- Solid knowledge of common data structures and algorithms, skilled in writing high-quality code with low time complexity, readability, and maintainability.
- In-depth understanding of relational database principles, including database design, transaction concurrency control, transaction isolation skills, SQL queries, and storage modeling. Experienced in designing storage models and using features like indexing, partitioning, and sharding to meet business requirements.
- Knowledge of operating system, could leverage OS design principles to guide application architecture. Understanding of Docker virtualization technology.
- Proficient in system design methods for application development, with experience in modeling systems using appropriate tools (UML, Draw.io, Pencil, Lucid, etc.) and creating clear and accurate architectural diagrams.
- Excellent English communication and collaboration skills. Presented technical talks in English to international teams and regularly read classic technical books in English.

WORK EXPERIENCE

SAP LABS CHINA (XI'AN)

2019.06 - PRESENT

Software Development Engineer & Scrum Master

Worked on the development of the One Data Catalog module within SAP Datasphere, which is an enterprise data management platform. The Catalog module connects various business systems, extracts metadata, and helps users discover, enrich, categorize, and publish high-quality data and analytics assets across the enterprise. As the top contributor on GitHub in Xi'an, my responsibilities include:

- Designed the Catalog backend features, including storage modeling, cache design, RESTful API design, authentication, authorization, and asynchronous communication using message queues.
- Successfully completed several technical challenges, such as microservices integration research, database query performance optimization, and CI/CD pipeline setup.
- Managed daily development tasks, task allocation, development process management, and code reviews to ensure the team delivered readable, maintainable, and high-quality code.
- Managed day-to-day team operations, including regular recruitment, organizing technical sharing sessions, and reviewing team member performance.
- Collaborated closely with international teams across different time zones to ensure smooth execution of various business tasks.

JD.COM (SHANGHAI)

2018.01 - 2019.04

Software Development Engineer

Contributed to the development of the JD Painter system and the Goldeneye project.

- JD Painter is a data visualization platform for JD.com's data analysis. Led a team of three in developing the web-based visualization platform, focusing on modules for monitoring coupon data and access control.
- Utilized React and Echarts for the frontend and Swoole with Laravel for building RESTful APIs on the backend.
- In the Goldeneye project, designed and developed APIs for the security and risk control module, following RESTful specifications, and optimized API performance through database optimization and caching.

CAMPUS EXPERIENCE

Tencent Dalian

2017.07 - 2017.10

- Refactored a PHP project using Node.js, improving concurrency with Promises and implementing JWT-based authentication with token auto-refresh.
- Worked on the QQ Kandian and TIM Message Roaming middleware development, using Protocol Buffers for data exchange and providing APIs with Node.js.