Guanglin Wu

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◼ Education

2019.7 Bachelor's Degree in Computer Science and Technology, **Shantou University**

◼ Work Experience

2020.07 - 2024.05   ByteDance | TikTok Eng-Generalized Arch   Mid-level Front-End Engineer

1.   Watchdog（Intelligent monitoring and operation platform, aimed at improving TikTok service stability）

Technologies used: React, Arco, AceState, Echarts, Starling, Solder, Feishu Dosc SDK, ANTLR

- Independently designed and developed modules including Alert Monitoring, Alert Routing, Alert Events, Change Event Center (80+ types of events, most comprehensive and user-friendly), Notebook (troubleshooting document tool, 300+ SOP documents), and Root Cause Analysis (with recall accuracy of 80%).
  - **Notebook**: Developed a custom rich-text editor using Feishu Docs SDK, supporting features such as @mentions, external image links, and various document blocks like text, charts, logs, Iframes. Implemented custom variable language using ANTLR, supporting multiple function syntaxes, variable dependencies, and syntax hints. Solved translation interface limitations by text chunking, controlling concurrency, and reassembling requests.
  - **Change Event Center**: Developed a custom event query language using ANTLR, with interactive UI linked to the event query language.
- Contributed to the design and development of features like the Technical Service Dashboard, Business Service Dashboard, Critical Link Observation, and Weekly Report Widgets (used by 20+ departments).
  - Solved issues related to rendering multiple types of charts and customization by encapsulating the Echarts Panel component, standardizing chart data structure and rendering process, and developing various plugins for customization.
  - Solved performance issues in large dashboard charts by implementing lazy loading for code and data, controlling request and render priorities, and optimizing backend interfaces.
  - Developed the Weekly Report Widget using Feishu Cloud Docs SDK, resolving slow data requests and data expiration through automatic screenshot snapshots, earning over 90% positive user feedback.
- Responsible for the project's stability (zero white-screen feedback within 6 months).
  - **Prevention**: Structured and tested strong and weak dependencies, implemented Service Worker for disaster recovery, optimized code review processes (fine-grained and multi-person reviews), improved deployment and code governance (zero ESLint and TypeScript errors), and added unit tests.
  - **Monitoring**: Developed a comprehensive hierarchical alarm monitoring system (JS and request errors), and implemented regular E2E testing for key pages (Playwright).
- Other work: including integration with TikTok's monorepo, compliance transformations, build optimization, and deployment improvements.

2.   Watchman（Old version of the intelligent monitoring and operation platform）

Technologies used: React, Semi, AceState, Starling, Echarts, Solder

- Independently developed and built the entire project from scratch, including features like Alert Monitoring, Health checks, Trace, and Service Monitoring.

2018.10 - 2020.05   Zhuiyi Technology | Basic Product Center   Front-End Engineer

1.   Bot Platform（NLP Chatbot）

Technologies used: Vue, Element, Egg, MySQL, Redis, Docker

- Developed mainline version features such as one-click deployment, RBAC-based permission management, task graphs, and multi-dimensional tagging. Also developed custom version features like multi-level user approval, change record comparison, domain name path transformation, and conversation data statistics.
- Developed cloud-based front-end components for knowledge graph management and intelligent education, supporting the plug-and-play integration of these features into projects.
- Managed the project and team, including hosting morning meetings, demand reviews, resource coordination, assigning tasks and bug tickets, optimizing project builds, and creating various standards and process documentation.

2. **OSS Management Center** （A configuration platform for different chatbot）
Technologies used: Vue, Element, Egg, SQLite, Docker
- Reduced frontline feedback issues by 70% by addressing historical defects, standardizing workflows, and creating SOP manuals.
- Supported mainline and customized version features, such as domain path transformations, Kubernetes deployment adjustments, login authentication changes, and integration with new CI/CD pipelines.

3. **Zhuiyi Official Website**
Technologies used: Vue, FullPage, Element, Egg, MySQL
- Supported internationalization, responsive design, compatibility optimization (IE8), SEO optimization, and page performance improvement (>100%).

4. **Connect** (Customer Service Platform)
Technologies used: Vue, Element, Egg, Redis, MySQL, Docker
- Independently researched and completed Weibo integration requirements, designed and developed the Configuration Center from scratch. Supported business requirements, including file upload APIs, data reporting scripts, and interface performance stress testing.

2018.05 - 2018.08   JD.com | WeChat HandQ Department   Front-End Intern
- Participated in developing business requirement development for the WeChat HandQ Learning Platform and PPMS Operations Content Management Platform.

■ SKILLS
- **Frontend**: React, Vue, TypeScript, Webpack
- **Backend**: Nodejs (Egg/Koa)
- **Blockchain**: Solidity
- **Others**: Docker, MySQL, Redis, Playwright, etc.