# Shilin Zhu

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## Education

**Northeastern University**                                                         2025/09 — 2027/07
Master of Science in Computer Science                                                Boston, MA, USA

**South China Agricultural University**                                             2011/09 — 2015/07
Bachelor of Science in Computer Science and Technology                               Shenzhen, China
**Relevant Courses:** Analysis and Design of Algorithms, Data Structures, Operating System, Database System

## Work Experience

**ByteDance** - IES User Experience Design                                          2020/08 — 2023/08
Senior Frontend Engineer                                                             Shenzhen, China
- Led and delivered key projects: **Jimu** (low-code engine) and **Argus** (content moderation system)
- Developed and maintained content audit system for Douyin, TikTok and other ByteDance products
- Led a team of 8 engineers to develop Jimu low-code engine from scratch, enabling rapid audit page creation for outsourcing staff

**Tencent** - Social Network Group (SNG)                                            2018/11 — 2020/08
Frontend Engineer                                                                   Shenzhen, China
- Spearheaded the **Intelligent Visual Crawl Platform** development from scratch, implementing automatic article extraction capabilities
- Led architecture design and implementation of content audit systems, with focus on Node.js performance optimization
- Developed a visual page building platform that was open-sourced company-wide and adopted by multiple business teams

**Alibaba** - Tmall Global                                                          2016/03 — 2018/11
Frontend Engineer II                                                                Hangzhou, China
- Served as core developer for major international e-commerce platforms: **Taobao Overseas**, **LAZADA**, and **Tmall International**
- Focused on cross-platform compatibility, performance optimization, and implementing modern frontend technologies

**Lizhi Network Technology Co.**                                                    2015/03 — 2016/02
Frontend Engineer                                                                   Guangzhou, China
- Developed and maintained the **LizhiFM websites**, the company's primary user-facing digital products
- Implemented comprehensive frontend solutions addressing performance optimization, cross-browser compatibility, and responsive design challenges

## Projects

**Jimu Building Block Visualization Platform**                                      2021/08 — 2023/08
A cross-platform web page building platform that provides an efficient and agile vision for internal audits
- Used **React**, **Vue**, **Node.js**, **Golang**, **Python** to build a full-link visual editing-to-rendering solution, supporting more than **50000 employees** for pages creation
- Led the team to develop a lowcode engine from scratch which enabled rapid audit page creation for outsourcing staff
- Built several node.js or golang BFF(backend for frontend) services as middle layers to support content audit system
- The platform was used by multiple business teams and was **partially open-sourced** company-wide

**Argus Strategy Editor & Rule Engine**                                             2020/08 — 2021/07
A full-flow visual DAG business process orchestration system and rules execution engine
- Led the development of the Argus system in ByteDance, which is used by the content audit team to build and execute business rules

**Intelligent Visual Crawl Platform**                                              2018/11 — 2020/08

An intelligent visual crawl platform that supports automatic content extraction

- Used **Redis**, **Puppeteer**, **Node.js**, **Docker** to build a distributed crawling application, crawled about ten million data everyday
- Processed big data, implemented intelligent monitoring and automated data effects analysis with **ElasticSearch** and **Grafana**
- Used **content recognition algorithms** to improve crawl accuracy
- Developed and deployed data cleansing via **Serverless**
- Led the team in developing a visual crawl platform from scratch and shared at the **Global Internet Architecture Conference**

**Taobao Overseas**                                                                2017/09 — 2018/11

An e-commerce platform for over 100 million overseas Chinese consumers worldwide

- Used **React** to build overseas product detail page; solved the problems of diverse data sources and high complexity; applied **PWA** and **AMP** techniques; gave a talk "AMP & PWA practice in Taobao overseas" at **D2 Salon Conference**
- Participated in building the **Taobao Lite** applications from scratch; built the mobile home page, various channels and activities pages
- Optimized the first screen loading experience by extracting key dependencies, asynchronous resources' fetching within **Service Worker**; Handled native-to-web downgrades, header adaptations, and hybrid adaption issues

**LAZADA Taobao Collection**                                                       2017/03 — 2018/11

A Southeast Asian e-commerce platform

- Supported five national sites with comprehensive technical solutions: network optimization, **CDN acceleration**, multinational data access, unified front-end modules, internationalization, and multi-currency support
- Led **Akamai CDN** access usage for source site configuration, tracing, HTTPS support, **HTTP2** multiplexing, and **Weex** configuration
- Participated in the deployment of clusters such as the Unified Access Layer, Certificate Center, etc. in Southeast Asia
- Optimized loading time from **5 - 11s** initially to less than **2s** in Southeast Asia

**Tmall International**                                                             2016/03 — 2017/03

An e-commerce platform that provides domestic consumers with imported commodities directly from overseas

- Participated in several revisions of category channels, performance data collection, analysis and **UX optimization**
- Led the Tmall International **Weex** adoption, solved end-to-end compatibility, and built common components
- Participated in Tmall international commodities' traceability project where consumers can validate products according to **blockchain** data
- Improved built-in WebView **pop-up layer** and built common adapted components

**Lizhi FM websites**                                                              2015/03 — 2016/02

An audio content platform for content creators and listeners

- Developed and maintained official PC & Mobile sites, created various activities and marketing pages
- Analyzed and solved various technical implementation, **performance tuning**, and cross-terminal compatibility problems encountered by the front-end
- Wrote LizhiJSBridge, the client's **built-in browser** - responsible for designing interface documentation and communication standards, as well as implementing the built-in browser's JS Runtime and inter-client communication
- Built **JS Runtime** of the built-in browser and inter-client communication, providing an interface for web applications with open native capabilities

## Skills

- **Programming Languages**: JavaScript (9 years), TypeScript, Node.js, Rust, Java, C++, Python and Golang
- **Tech Skills**: Performance Optimization, Network Optimization, Lowcode System, Database Systems, Web Crawling