Jinjia Zhang

📧 **jinjia.zhang@aalto.fi** 📱 **+358 414918643** 🇫🇮 **Espoo** 💠 **linkedin.com/in/jinjia-zhang**

💬 Profile

I am looking for an internship as a software developer in the Spring or Summer of 2023.

As an employee, I am an eager-to-learn person and a fast learner who is able to work independently and in a team. I want to increase my knowledge of cloud-native development, networking and security. My career goal is to become a tech-enthusiastic leader in the future.

🏫 Education

Aalto University Aug 2022 - Jul 2024

Security and Cloud Computing, Master Espoo, Finland

Nanjing University of Posts and Telecommunications Sep 2016 - Jun 2020

Internet of Things Engineering, Bachelor Nanjing, China

📖 Work Experience

ByteDance Dec 2021 - Jul 2022

Back-end Developer Beijing, China

- Responsible for the design and development of computing ECS products and providing on-call support
- Optimized existing ECS products to ensure stability and user experience
- Changed the paging format of query APIs from PageSize to NextToken and the performance was increased from 200QPS to 400QPS
- Responsible for middleware in order to observe entire back-end services, which improved the efficiency of R&D and troubleshooting
- Ensured the connection of various back-end services going through the gateway, which improved the stability and security of the system

QI-ANXIN Jul 2020 - Dec 2021

Back-end Developer Beijing, China

- Responsible for the design, and development of a service framework and providing on-call support
- Responsible for writing and maintaining relevant technical and user documentation
- Defined the standards of data models and parsed corresponding configuration files; utilized reflection libraries related to protocol buffers to autogenerate APIs
- Responsible for pulling events from the producer in the message queue, ensuring that the consumer could pull all events without errors even under abnormal conditions
- Proposed to abstract channel based on gRPC, allowing each subscriber to pull events from various topics, which cut down the memory usage by 50% ~ 65%
- Constructed the surveillance module of the whole system, which could monitor the current number/speed of generating events, the number of subscribers, etc., and visualize them with Prometheus and Grafana
- Wrote shell scripts to conduct integration tests in Kubernetes by using fail-point to simulate normal conditions and various abnormal conditions before being delivered to the production environment
- Participated in performace stress tests, used pprof/iostat to know the system's stress situation and researched state-of-the-art message queue systems like NATS to provide references for optimization

🚀 Skills

- **Laguges:** Chinese, English
- **Coding:** Go, Javascript(React, Node, Deno), Shell, Python, C/C++, SQL, Typescript, Deno
- **Cloud:** Docker, Kubernetes, Prometheus, Grafana, Terraform
- **Database:** MySQL, Redis, MongoDB, PostgreSQL
- **Other:** Git, gRPC, Protobuf

✨ Extracurricular Activities

- **Construction Team:** Slush 2022 Volunteer
- **Member:** Aalto University Digital Commission (2022 - Present)