Xin **Tu**

SOFTWARE ENGINEER · CLOUD DEVELOPER

Dublin, Ireland

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"Keep mind open for everything."

Summary

Software Development Engineer. 6 years focusing on software engineering and computer science, working with iOS, backend and embedded development. Interested in things under the hood, staying curious about everything and being self-driven. Love to keep eyes on technology news and products. Love to think and learn more when problem solving.

Work Experience

Amazon Web Services   *Dublin, Ireland*
SOFTWARE ENGINEER   *Apr. 2022 - Now*

- Developing MessageBus(Java + Rust) for AWS DynamoDB, for handling very high network traffics.

Microsoft   *Shanghai, China*
SOFTWARE ENGINEER II   *Nov. 2021 - Apr. 2022*

- Developing MCAT(Microsoft Compliance Assessment Toolkit) front-end UI, writing high quality code in JavaScript.
- Developing MCAT backend service API with ASP .NET for handling HTTP requests.

Ericsson   *Stockholm, Sweden*
RADIO SOFTWARE ENGINEER   *Dec. 2019 - Oct. 2021*

- Designed a C/S model used for open radio access network, based on netconf protocol, implemented with epoll and UNIX socket.
- Refactoring radio software code for better maintenance.
- Designed a common module for event-driven use cases and implemented event-loop based on epoll and asynchronous callbacks.
- Optimized cache policy for faster driver initialization under multi-threading environment.

Ericsson   *Nanjing, China*
RADIO SOFTWARE ENGINEER   *June. 2018 - Dec. 2019*

- Customized embedded linux distributions using Yocto Project.
- Rewrote low-level driver code and implemented interrupt-driven module for radio ASIC chips, with better performance.

Fanruan Software Co., Ltd.   *Nanjing, China*
iOS DEVELOPER   *Mar. 2016 - May. 2017*

- Built and deployed iOS application, designed and implemented UI components layout for iPhone and iPad.
- Optimized iOS application render performance using RunLoop and CADisplayLink.
- Wrote a plug-in web store for the report designer, using Javascript.

Presentation

Inner workshops in Ericsson   *Nanjing, China*
PRESENTER FOR <YOCTO PROJECT IN ERICSSON>   *Nov. 2019*

- Recipes - The Key to the Yocto.
- Build systems - CMake, autotools and etc.
- WindRiver - Tweaking the Linux kernel.

Education

Nanjing University(NJU)   *Nanjing, China*
B.E. IN ELECTRICAL ENGINEERING   *Sept. 2011 - Jul. 2015*

More About Me

Skills

PROGRAMMING LANGUAGES, TOOLS AND OTHERS

- C, C++, Java, Python, Objective-C, Swift, Rust, Assembly, JavaScript, C#
- Git, Azure Pipeline, Jenkins, Container
- Solid knowledge of operating system