

# Wei Tan

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## PROFESSIONAL EXPERIENCE

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- Intel** Oct 2018 - Present  
Virtualization developer Shanghai, China
- Development on ACRN project, mainly focusing on device virtualization and performance profiling and tuning based on Intel virtualization technology.
  - Linux-based RTOS performance profiling and tuning, responsible for KPI on Xenomai and Preempt-RT operation systems.
- ZTE** Jun 2015 - Oct 2018  
System engineer Nanjing, China
- Implement Android system virtualization with Linux container technology.
  - Implement an efficient remote desktop protocol based on SPICE.
  - Simulate a variety of hardware devices under Android, e.g. screen, camera, multi-touch pad, GPS, audio card.
  - Linux/Android system performance tuning, including file system, scheduler, block device, network.
  - Embedded system development, Linux and Uboot porting, Flash driver development.
- ArcherMind** Oct 2013 - May 2015  
Android BSP engineer Shanghai, China
- Cooperate with Intel, responsible for Android Mobile/Tablet GFX related stuff.
- Android GFX frameworks, including SurfaceFlinger, HWC, View subsystem and so on.
  - Display driver, including Android HAL, display controller driver, panel.
  - Android rendering system, including Skia, OpenGL, GPU driver.
- Hillstone** Jul 2011 - Sep 2013  
Platform engineer Suzhou, China
- MIPS hardware firewall development, focus on UBOOT and operate system development.
  - Linux kernel TCP/IP stack development, also have experience of some protocol, such as ARP, TCP, UDP, IP, ICMP, FTP, IMAP, POP3 and so on.
  - Linux driver development, including NIC, i2c, smbus and PCIE bus driver.

## LEADERSHIP EXPERIENCE

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- Operating System research** Aug 2007 - Present
- An enthusiastic Linux kernel hacker, I learned a lot by reading its source code and wrote some blogs for it (<https://blog.totorow.xyz/categories/understand-linux-kernel>).
  - Implement a simple operating system from the scratch named TOS (<https://github.com/tw4452852/tos>).
  - A VM implementation based on KVM technology (<https://github.com/tw4452852/zvm>).
- Language research** Jun 2011 - Present
- Golang: Digging into GO runtime details including GC, scheduler, map, split stack, and so on (<https://blog.totorow.xyz/categories/read-go>), Also the positive contributor of some open-source projects, like Caddy, Elvish. And I also wrote some tools during daily work in Go.
  - Rust: I'm participated in some open-source project development, like Nushell, Zellij and also some of my own tools are written with it.
  - Dart/Flutter: I just wrote a finance application called Countbean to fulfill my accounting requirement during daily life (<https://github.com/tw4452852/countbean>).
  - Zig: Developed a QEMU-like KVM frontend for deep learning the KVM/Virtualization technologies.

## EDUCATION

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- Nanjing University of Posts and Telecommunications** Aug 2007 - Jun 2011  
Information security Bachelor Computer Nanjing, China
- GPA: 3.06 / 4.0
  - Honors/Awards: The Third Prize Scholarship (2007, 2009), The Third Prize of information security competition.

## MISCELLANEOUS

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- **Skills:** C/C++(Proficient), GIT(Proficient), GO(Proficient), Rust(Normal), Zig(Proficient)
  - **Github:** <https://github.com/tw4452852>
  - **Blog:** <https://blog.totorow.xyz>
  - **Interests:** sports, music, reading