Zhiyang Chen

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Education

B.E. in Computer Science and Technology at **Beijing Technology and Business University**, Beijing, China — Sep, 2019 – Jun, 2023
, Selected courses: , , , ,

M.S. in Computing Science at **Utrecht University**, Utrecht, the Netherlands — Sep, 2025 – Present
, Selected courses: , , ,

Work Experience

BTBU, Beijing, China — Aug, 2024 – Aug, 2025
Project Leader, Research Assistant

Quan Cheng Laboratory, Jinan, China — Jan, 2024 – Feb, 2024
Secure Operating System Kernel Project, Flexible Researcher

Related Projects

Source-level OS Debugging Tools with Rust Language Support, VSCode Extension (role: project leader) chenzhiy2001/code-debug

- Supported source-level tracing and debugging across kernel state and user state based on QEMU and GDB.
- Supported performance analysis and monitoring across kernel and user states based on eBPF.
- Supported the combination of breakpoint debugging and performance monitoring based on VSCode to build remote development environments.

Skills

- Programming Languages: multilingual (not limited to any specific language), especially experienced in TypeScript/JavaScript Python Rust C C++ Java, comfortable with Wolfram Haskell Dart R MATLAB (in random order).
- IDE Tooling: **4 years of experience**, familiar with VSCode plugin development.
- Tools: editor-agnostic, have experience with team tools like YouTrack, Jira, GitHub, BitBucket, Slack, JetBrains Space and more.

Misc

- Languages: English - fluent (IELTS 7.5), Chinese - native speaker

Publications & Patents

[1] Z. Chen, J. Wu, Y. Yang, Y. Zhang, and H. Wang, "Debugging Kernel and User Space Synchronously Based on GDB," in *2025 6th International Conference on Computer Engineering and Application (ICCEA)*, 2025, pp. 1–5. doi: 10.1109/ICCEA65460.2025.11103326.

[2] Z. Chen, Y. Yu, Z. Li, and J. Wu, "An Online Debugging Tool for Rust-based Operating Systems," in *Rust Education Workshop*, 2022.

[3] J. Wu, L. Zhang, Z. Chen, and Y. Xiang, "Method and Apparatus for Debugging Operating System Source Code Across Kernel State and User State. C.N. Patent 2023115942620, Mar. 2024"

[4] X. Zhao, Z. Chen, L. Zhang, T. Yu, and P. Chunyi, "A Portrait Ranging Method Based on K210 Internet of Things System. C.N. Patent 2023115942620, May. 2021"