Chuyan Zhang

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🎓 Education

Tsinghua University	Beijing, China
Bachelor of Engineering in Computer Science and Technology	2019 - 2023
University of California, Santa Barbara	Santa Barbara, U.S.
Master of Science in Computer Science	2023 - *present*

🌱 Technical Skills

- **Programming**: C/C++, Rust, Python, Java/Kotlin
  - have completed multiple medium to large projects in C++ and Rust.
- **English**: 112 in TOEFL iBT Test (R30+L29+W28+S25)

🔭 Project Experience

LuisaRender 2021 - 2023
Developer & Maintainer

- LuisaRender is a heterogenous high-performance rendering framework, focusing on performance, portability and programmability.
- Worked on Python frontend, which compiles Python AST into Luisa DSL, and provides library functions similar to device functions on host side to enhance user experience.
- Worked on IR module, which performs essential optimizations and auto-differentiation passes on Luisa DSL prior to backend code generation.

Lark IM Core Infrastructure 2022
Developer

- Lark is a cross-platform office suite, in which common client logic (database, network, etc.) is extracted into a single shared library written in Rust and integrated into platform-specific frontend packages.
- Worked on the architectural migration of multiple modules.
- Developed an auxillary command-line tool to perform after-migration sanity check and integrated it into the CI process.

Rust-SPPM 2021
Developer

- Implemented a photorealistic renderer using Stochastic Progressive Photon Mapping in Rust, featuring anti-aliasing, accurate camera models and texture mapping.

⚽ Hobbies and Interests

In my spare time, I love photographing, cycling and playing video games.

- **Photographing**: I'm using a Fujifilm X-S10, and I also have a Phoenix 205A, which is a 1980s rangefinder film camera manufactured in China.
- **Cycling**: I'm planning to purchase a Trek FX 2 Disc hybrid bike, and cycle along Highway 1.
- **Video Games**: I'm a fan of strategic games from Paradox Interactive, including *Victoria 3*, *Crusader Kings 3* and *Hearts of Iron 4*. And I also play FPS games like *Apex Legends* and *Tom Clancy's Rainbow Six: Siege*.