



## Skills

- Rust
- C++
- JavaScript
- TypeScript
- C#
- Python
- SQL
- Java
- Julia
- Haskell
- C
- React
- Svelte
- Git
- GNU/Linux
- OpenGL

## Education

- Bachelor of Science in Applied Physics at the University of Technology, Sydney (2021 - 2024)
- High School Certificate (2015 - 2020)

## Involvements & Achievements

- UTS Programmers' Society General Committee Member (2024)
- 2<sup>nd</sup> Place UTS ProgSoc Programming Competition 2023 (solo team)
- 2<sup>nd</sup> RoboCup Jr. 2018 Gen II Soccer (solo team)

# Jasper Parker

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A proficient and self-motivated programmer with several years of full-stack experience in freelance work and open source development. Set to graduate with a bachelor's degree in applied physics at the end of the year and currently seeking a developer internship.

## Projects & Experience

### Personal Projects

For interactive demos and more projects see [jaspwr.github.io](https://jaspwr.github.io).

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|---|--|
| <ul style="list-style-type: none"><li><b>Lia</b><br/><a href="https://github.com/jaspwr/lia">https://github.com/jaspwr/lia</a></li></ul>                      | A transpiled superset of TeX for writing LaTeX designed to make LaTeX code less verbose and faster to write. Was used to create this document. |
| <ul style="list-style-type: none"><li><b>GPU Based C compiler</b><br/><a href="https://github.com/jaspwr/gpucc">https://github.com/jaspwr/gpucc</a></li></ul> | A prototype C compiler written in GLSL compute shaders that compiles a subset of C to x86_64 assembly.   |
| <ul style="list-style-type: none"><li><b>Glimpse</b><br/><a href="https://github.com/jaspwr/glimpse">https://github.com/jaspwr/glimpse</a></li></ul>          | A simple GTK launcher/file search engine for GNU/Linux. Instantly searches files and installed applications with a custom database.            |
| <ul style="list-style-type: none"><li><b>vol-applet</b><br/><a href="https://github.com/jaspwr/vol-applet">https://github.com/jaspwr/vol-applet</a></li></ul> | A simple GTK system tray volume controller applet for PulseAudio.  |
| <ul style="list-style-type: none"><li><b>Chess Engine</b><br/><a href="https://github.com/jaspwr/chess">https://github.com/jaspwr/chess</a></li></ul>         | A UCI compatible chess engine written in C that uses magic bitboards and a custom evaluation function.   |
| <ul style="list-style-type: none"><li><b>Lilac</b><br/><a href="https://github.com/jaspwr/lilac">https://github.com/jaspwr/lilac</a></li></ul>                | A transpiled frontend web meta-framework.  |

### UTS Programmers' Society Projects

- Wrote 12 of the 15 Questions for UTS ProgSoc Programming competition 2024 and provided assistance with the other questions.
- Built 2 clients for and made significant backend contributions to Fuzz-Judge.
- Reviewed changes submitted by other members.

### BetterDiscord Plugin Ecosystem

- Created a plugin with 51K+ downloads.
- Fixed several plugins with thousands of active users when they were broken by updates.

### Arch User Repository

- Maintained packages for Arch Linux.

## Previous Work

### IT Consultant - Parker Insolvency (2020 - 2022)

- Configured, administrated and maintained servers hosting websites, email, DNS and cloud storage.
- Saved hundreds of dollars in website hosting fees by creating and self-hosting a new website.
- Provided personal computer maintenance and assistance for employees.

## Additional Skills

- Reverse engineering and assembly.
- Adobe Photoshop, Illustrator, After Effects, Premiere, InDesign, Animate/Flash.
- MS Office and LibreOffice.