Albert Kołodziejski

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About me
I am a third-year student seeking a job that will challenge me and provide opportunities to step out of my comfort zone. I am eager to learn, work hard, admit my mistakes, draw lessons from them, and try again until it is done.

Skills
- Rust
- C++
- Git
- Problem Solving
- Linux
- SQL
- Testing
- Teamwork
- LaTeX
- Vim
- Design Patterns

Languages
- English - B2
- Polish - Native Speaker

Education

2021-now Bachelor of Computer Science — Wrocław University of Science and Technology

My studies emphasize understanding IT. Throughout them, I have gained knowledge about algorithms, floating point errors, computation limits, and compilers.

Projects

2D Game My two friends and I have made a 2D game in **C++** without using any game engines, relying only on **SFML** for window rendering. We created everything from collision detection to the user interface ourselves.

Compiler One of the hardest exercises in my studies was creating a working compiler that translates a simple language to simple assembler. I built it using **Rust** and a parser library, and to ensure it worked as intended, I employed **test-driven development**.

Activities

Patterns I have learned about **Design Patterns** not only during my studies but also from the book "Design Patterns: Elements of Reusable Object-Oriented Software." This knowledge has helped me with many tasks I have encountered. For example, I and my friends used **Singleton** and **Composite** to make games during gamejams.

Practice In my free time, I enjoy doing coding exercises in **C++** and **Rust** on websites like SPOJ and Exercism. Additionally, I have **mentored several people**, helping them improve their solutions and introducing them to core concepts in these languages. Testimonials of students

Reports Throughout my studies, many courses required me to write reports, which I composed using **LaTeX**. This experience allowed me to develop skills and knowledge in creating professional documents.

Hobbies

Games I love board games, one of me favorites is Magic the gathering. I have currently more then 300 cards, that I use to arrange tournaments for my friends.

Books My favorite author is Brandon Sanderson, who writes fantasy books that focus on world building and coherent magic system.