Jonas Pauli

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EXPERIENCED SOFTWARE ENGINEER SPECIALIZED IN RUST AND SYSTEMS DESIGN

WORK EXPERIENCE

since 09.2022   R&D Engineer at Casper Association

- Member of a core team responsible for research and development of blockchain scaling solutions, leveraging zero knowledge proof systems and collaborating with novel cryptography start-ups.
- Responsible for delivery of proof of concept applications and services, including a full-stack React application that was shared with hundreds of High-school students in the U.S. during a tech-talk series in collaboration with "Virtual Enterprises International" - an educational entity based in New York.
- Contributed to the open source Cryptography and Blockchain ecosystem, publishing innovative codebases on Github and authoring research articles on Medium.
- Composed documentation for complex products, libraries and crates, targeting developers with diverse backgrounds whilst focusing on practical examples and usability / reproducibility.

07.2022-09.2022   R&D Assistant at Casper Association

- Successfully recruited for a professional role during my tenure at a British High School in Zurich, demonstrating early career initiative and capability.
- Achieved an International Advanced Level (IAL) qualification in Mathematics and Physics, showcasing strong analytical and problem-solving skills.
- Opted for a specialized career path in Systems Development and Cryptography, prioritizing hands-on technical expertise and practical application over a conventional Computer Science degree. This decision reflects my commitment to deepening core programming skills and aligning with industry-specific needs.

GITHUB & MEDIUM

The best way to get to know me is through my open source code contributions:

Github: https://github.com/jonas089

Medium: https://medium.com/@jonas_casper

GITHUB HIGHLIGHTS

- Paradox-6: Rust system that supports multiple zero knowledge proving backends
- VRF-noir: Verifiable random number generator with a twist
- Thyla-trees & Rollup-raptor: Merkle proofs in Rust
- ...

SKILLS

Skill	
Rust	▰▰▰▰▰▰▱
Cryptography	▰▰▰▰▰▱
Python	▰▰▰▰▱
Blockchain	▰▰▰▰▱
Api & Backend	▰▰▰▱
SQL	▰▰▱
Frontend	▰▱

INTERESTS

Cryptography,

Merkle Tree applications,

Zero Knowledge proving systems,

Distributed systems development,

Gaming (in particular Ark! Survival Evolved)