Sam **Tay**

SENIOR SOFTWARE ENGINEER

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Summary

Skillful problem solver with a background in mathematics and functional programming. 9+ years of experience in software engineering. Proven ability to quickly ramp up on new languages and technologies. Rust enthusiast.

Education

Kenyon College	*Sep 2009 - May 2013*	**University of Washington**	*Sep 2020 - June 2023*
B.A. IN MATHEMATICS	*Gambier, OH*	M.S. IN COMPUTER SCIENCE	*Seattle, WA*

- Awarded Distinction on Senior Thesis
- Achieved GPA of 3.91

- Achieved GPA of 3.99

Experience

Sunscreen *Oct 2022 - Present*
SENIOR SOFTWARE ENGINEER *Remote*

- **Open Source**: Maintained our open source FHE compiler and wrote user documentation, tutorials, and integrations.
- **Languages**: Rust.

Phylum *Apr 2022 - Oct 2022*
SENIOR SOFTWARE ENGINEER *Remote*

- **APIs**: Developed APIs internal and external parties to interact with our supply chain security package scoring data.
- **Data**: Maintained an interface between the OLAP and OLTP areas of our product.
- **Languages**: Rust, Scala, SQL.

SimSpace *Dec 2018 - Apr 2022*
SOFTWARE ENGINEER *Remote*

- **APIs**: Developed APIs for various services that comprise a realistic network simulation product for cybersecurity training.
- **Postgres**: Regularly alleviated performance problems by analyzing and improving Postgres query plans.
- **Languages**: Haskell, SQL.

Wrinkl *Aug 2017 - Nov 2018*
FULL STACK ENGINEER *Remote*

- **App Development**: Developed a websocket-driven chat application, supporting web, iOS, and Android apps.
- **FRP**: Used the Reflex FRP library to develop highly dynamic user interfaces with declarative strongly-typed code.
- **Languages**: Haskell, SQL, Nix.

Blue Acorn *May 2014 - Feb 2017*
BACKEND ENGINEER *Charleston, SC*

- **Magento**: Developed and maintained eCommerce sites and reusable modules on the Magento platform.
- **Initiative**: Founded an educational Functional Programming group with weekly meetups.
- **Languages**: PHP, Javascript, Bash.

Projects

so
- A terminal user interface for Stack Overflow
- ☆ 1268 ⑂ 31

tetris
- A terminal user interface for Tetris
- ☆ 742 ⑂ 35

Skills

- **Productivity**: Passionate about tooling that empowers developers and yields higher throughput.
- **Nuance**: In favor of compile-time guarantees and type-level invariants, but able to sense the point of diminishing returns.