Sam **Tay**

SENIOR SOFTWARE ENGINEER

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Summary

Skillful problem solver with a background in mathematics and functional programming. 8+ 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*
B.A. IN MATHEMATICS   *Gambier, OH*

- Awarded Distinction on Senior Thesis
- Achieved GPA of 3.91

University of Washington   *Sep 2020 - Present*
M.S. IN COMPUTER SCIENCE   *Seattle, WA*

- Enrollment: Part-time
- Current GPA: 4.00

Experience

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

- **APIs**: Develop APIs for multiple consumers (web, CLI, and third parties) to interact with our package scoring data.
- **Data**: Maintain an interface between the OLAP and OLTP areas of our product.
- **Languages**: Rust, Scala, SQL.
- **Technologies**: AWS, Docker, HBase, Kubernetes, Postgres, Redis, Spark.

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

- **APIs**: Develop APIs for various services that comprise a realistic network simulation product for cybersecurity training.
- **Postgres**: Regularly troubleshoot performance problems by analyzing and improving Postgres query plans.
- **Languages**: Haskell, SQL.
- **Technologies**: AWS, Docker, Kubernetes, Minio, Postgres, Servant.

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.
- **Technologies**: Hydra, NixOS, Postgres, Reflex-Platform, Snap.

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

- **Lead**: Led an agile team and mentored junior developers.
- **Initiative**: Founded an educational Functional Programming group with weekly meetups.
- **Magento**: Developed reusable modules in an object oriented MVC eCommerce framework.
- **Languages**: PHP, Javascript, Bash.
- **Technologies**: Ansible, KnockoutJS, Magento, MySQL, RabbitMQ, Zend.

Projects

so
- A terminal user interface for Stack Overflow
- ☆ 1000 ⑂ 19

tetris
- A terminal user interface for Tetris
- ☆ 621 ⑂ 34

Skills

- **Agile**: Familiarity with both Scrum and Kanban, and products such as Jira, Pivotal, and Workfront.
- **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.