

# Sam Tay

SOFTWARE ENGINEER

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## Summary

Skillful problem solver with a background in mathematics and a passion for functional programming. 7+ years experience in software engineering. Proven ability to quickly ramp up on new languages and technologies.

## Education

### Kenyon College

B.A. IN MATHEMATICS

Sep 2009 - May 2013

Gambier, OH

- Awarded Distinction on Senior Thesis
- Achieved GPA of 3.91

### University of Washington

M.S. IN COMPUTER SCIENCE

Sep 2020 - Present

Seattle, WA

- Current GPA: 4.00

## Experience

### SimSpace

SOFTWARE ENGINEER

Dec 2018 - Sep 2019, Jun 2020 - Present

Remote

- **APIs:** Develop APIs for various services that comprise a realistic network simulation product for cybersecurity training.
- **Languages:** Haskell, SQL.
- **Technologies:** AWS, Docker, Kubernetes, Minio, Postgres, Servant.

### University of Washington

TEACHING ASSISTANT

Sep 2019 - Jun 2020

Seattle, WA

- **Teaching:** Wrote lesson plans and led recitation classes for undergraduate probability and statistics courses.
- **Learning:** Took graduate classes such as Statistical Inference, Network Optimization, Graphical Models, Machine Learning, Programming Language Theory.
- **Languages:** Python, R, Coq.

### Wrinkl

FULL STACK DEVELOPER

Aug 2017 - Sep 2019

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

APPLICATIONS ENGINEER

May 2014 - Feb 2017

Charleston, SC

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

## Projects

so

- A terminal user interface for Stack Overflow
- ☆ 715 📄 13

tetris

- A terminal user interface for Tetris
- ☆ 505 📄 25

## Skills

- **Agile:** Familiarity with both Scrum and Kanban.
- **Code Review:** Meticulous, verbose code reviews (when preferred by team culture).
- **Productivity:** Passionate about tooling that empowers developers and yields higher throughput.