

Sam Tay

SOFTWARE ENGINEER

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Summary

Skillful problem solver with a background in mathematics and a passion for functional programming. 5+ years experience in software engineering. Proven ability to quickly ramp up on new languages and technologies.

Education

Kenyon College

Sep 2009 - May 2013

B.A. IN MATHEMATICS AND SCIENTIFIC COMPUTING

Gambier, OH

- Awarded Distinction on Senior Thesis
- Achieved GPA of 3.91

Experience

SimSpace

Dec 2018 - Sep 2019, Jun 2020 - Present

SOFTWARE ENGINEER

Remote

- **APIs:** Develop APIs for various services that comprise a realistic network simulation product for cybersecurity training.
- **Functional Programming:** Leverage advanced type system features to achieve a high level of code safety.
- **Languages:** Haskell, SQL.
- **Technologies:** AWS, Docker, Kubernetes, Minio, PostgreSQL, Yesod.

University of Washington

Sep 2019 - Jun 2020

TEACHING ASSISTANT

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

Aug 2017 - Sep 2019

FULL STACK DEVELOPER

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 well-typed code.
- **Languages:** Haskell, SQL, Nix.
- **Technologies:** Hydra, NixOS, PostgreSQL, Reflex-Platform, Snap.

Blue Acorn

May 2014 - Feb 2017

APPLICATIONS ENGINEER

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.

Skills

- **Agile:** experience in both scrum and kanban.
- **Client interactions:** experience discussing complex details with nontechnical stakeholders.

Projects

tetris

- A terminal user interface for Tetris
- ☆ 433

snake

- A terminal user interface for Snake
- ☆ 36

reflex-todo

- An example full-stack reflex application