

Samuel Chong Tay

SOFTWARE ENGINEER · MATHEMATICIAN

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Summary

Skilled problem solver with a background in pure mathematics. 2+ years experience in web development, backend/infrastructure, and devops. Proven ability to quickly ramp up on new languages/technologies. Efficiency nerd who loves Vim, Linux, and xmonad, and enjoys customizing the development environment. Interested in learning new technologies and tools to solve complex, challenging problems.

Experience

Applications Engineer

May 2014 - Feb 2017

BLUE ACORN

Charleston, SC

- Streamlined deployment pipeline across the organization.
- Pushed the most contributions to internal modules.
- Improved developer experience via Tampermonkey scripts and zsh plugins.
- Achieved the most "Play of the Sprint" awards in 2015.
- Promoted from Apprentice to Senior within two years for exemplary work quality and productivity.

Reporting Analyst

Sep 2013 - May 2014

SIB DEVELOPMENT & CONSULTING

Charleston, SC

- Contributed to unlogging the largest bottleneck in company operations, using Acrobat and Excel.

Research Assistant

Summer 2011

ASTROPARTICULE ET COSMOLOGIE

Paris, France

- Conducted research and data analysis in correlation of temperature variation and phase noise for LOT (LISA On Table), an optical simulator for the LISA mission, under Dr. Hubert Halloin.

Research Assistant

Summer 2010

VALPARAISO UNIVERSITY

Valparaiso, IN

- Explored pattern avoidance in ternary trees (combinatorial mathematics) in a team of three undergraduate students under mentor Dr. Lara Pudwell.

Skills

Development

- Agile experience in both scrum and kanban, along with Jira, Workfront, and ZenHub.
- Experience leading an agile team and mentoring junior developers.
- Very efficient workflow from requirements gathering to development execution.
- Experience with direct client interactions and discussing complex technological details with nontechnical stakeholders.

Languages

- Fluent in Haskell, PHP, Javascript, C++.
- Experience with Python, Bash, C.

Software

- Mastery of Magento.
- Experience with technologies such as Docker, Ansible, NodeJS, Symfony, MySQL, RabbitMQ.

Workflow

- Proficient in Linux and MacOS.
- Enjoy maximizing productivity with development tools such as git, vim, tmux, xmonad, zsh, ngrok.

Education

Kenyon College

Gambier, OH

B.S. IN MATHEMATICS AND SCIENTIFIC COMPUTING

Sep 2009 - May 2013

- Awarded Distinction on Senior Thesis
- Achieved GPA of 3.91

Publications

Pattern Avoidance in Ternary Trees

Journal of Integer Sequences

NATHAN GABRIEL, KATHERINE PESKE, LARA PUDWELL, AND SAMUEL TAY

Dec 2011

<http://arxiv.org/abs/1110.2225>