

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

Blue Acorn

SENIOR APPLICATIONS ENGINEER

Charleston, SC

May 2014 - Feb 2017

- 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.

SIB Development & Consulting

REPORTING ANALYST

Charleston, SC

Sep 2013 - May 2014

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

AstroParticule et Cosmologie

RESEARCH ASSISTANT

Paris, France

Summer 2011

- 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.

Valparaiso University

RESEARCH ASSISTANT

Valparaiso, IN

Summer 2010

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

Skills

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| Development | <ul style="list-style-type: none">• 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 | <ul style="list-style-type: none">• Fluent in PHP, Javascript, and C++.• Experience with Haskell, Bash, Python, C. |
| Software | <ul style="list-style-type: none">• Mastery of Magento.• Experience with technologies such as Docker, Ansible, NodeJS, Symfony, MySQL, RabbitMQ. |
| Workflow | <ul style="list-style-type: none">• Proficient in Linux and MacOS.• Enjoy maximizing productivity with development tools such as git, vim, tmux, xmonad, zsh, and ngrok. |

Education

Kenyon College

B.S. IN MATHEMATICS AND SCIENTIFIC COMPUTING

Gambier, OH

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>