Samuel Chong **Tay**

SOFTWARE ENGINEER · MATHEMATICIAN

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Education

Kenyon College *Gambier, OH*

B.S. IN MATHEMATICS AND SCIENTIFIC COMPUTING *May 2013*

- Awarded Distinction on Senior Thesis
- Achieved GPA of 3.91

Experience

Blue Acorn *Charleston, SC*

SENIOR APPLICATIONS ENGINEER *May 2014 - Present*

- Transformed client requirements into custom features and built abstract reusable modules.
- Contributed to DevOps initiatives such as deployment tools, Hipchat Connect addons, and a docker composition-machine management tool.
- Promoted from Apprentice to Senior Applications Engineer within two years.

SIB Development & Consulting *Charleston, SC*

REPORTING ANALYST *Sep 2013 - May 2014*

- Built reports using Excel and Acrobat to validate savings for clients.

AstroParticule et Cosmologie *Paris, France*

RESEARCH ASSISTANT *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 *Valparaiso, IN*

RESEARCH ASSISTANT *Summer 2010*

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

Skills

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

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

Workflow
- Proficient in Linux and MacOS.
- Enjoy maximizing productivity with development tools such as git, vim, tmux, i3, zsh, and ngrok.

Certifications

MAGENTO CERTIFIED DEVELOPER PLUS *Aug 2015*

License 0g0dtt039n

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