# 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 - Feb 2017*

- 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*

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

**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, Ansible, NodeJS, Symfony, MySQL, RabbitMQ.

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

## Certifications

MAGENTO CERTIFIED DEVELOPER PLUS                                                        *Aug 2015*

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## 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