

Samuel ChongTay

SOFTWARE ENGINEER · MATHEMATICIAN

852 Centerwood Drive, Charleston, SC 29412

☎ (631) 291-3866 | ✉ sam.chong.tay@gmail.com | 📱 [samtay](#) | 🌐 [sam-tay](#)

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, 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>