

# Samuel ChongTay

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 internal infrastructure 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.

### Independent Support Services

Rock Hill, NY

MATH TUTOR

Summer 2012

- Tutored an autistic client in math and successfully increased placement exam scores, allowing the client to pursue their desired program at the SUNY Nassau Community College.

### 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 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

## Honors & Awards

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2013 The Reginald B. Allen Prize

*Kenyon College*

2011 The Wendell D. Lindstrom Memorial Prize

*Kenyon College*

2011 Undergraduate Poster Session Award

*JMM, New Orleans*

## Publications

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### **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>