

Samuel Chong Tay

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OBJECTIVE	A dynamic position in software development that allows learning and expanding into new technologies to solve interesting problems.	
EDUCATION	<i>Bachelor of Science</i> <i>Kenyon College</i> <i>Major: Mathematics; Minor: Scientific Computing</i> <i>GPA: 3.91</i>	2013 Gambier, OH
COMPUTER SKILLS	<i>Languages:</i> Fluent in PHP, Javascript, and C++. Experience with Bash, Python, C. <i>Software:</i> Mastery of Magento and development tools such as git, vim, tmux. Experience with technologies such as Docker, NodeJS, Symfony, MySQL, RabbitMQ. <i>Operating Systems:</i> Linux and Mac OS.	
EXPERIENCE	<div><div><i>Senior Applications Engineer</i> Blue Acorn</div><div>May 2014 - Present Charleston, SC</div><ul style="list-style-type: none">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.</div> <div><div><i>Reporting Analyst</i> SIB Development and Consulting</div><div>September 2013 - May 2014 Charleston, SC</div><ul style="list-style-type: none">Built reports using Excel and Acrobat to validate savings for clients.</div> <div><div><i>Math Tutor</i> Independent Support Services</div><div>Summer 2012 Rock Hill, NY</div><ul style="list-style-type: none">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.</div> <div><div><i>Research Assistant</i> AstroParticule et Cosmologie</div><div>Summer 2011 Paris, France</div><ul style="list-style-type: none">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.</div> <div><div><i>Research Assistant</i> Valparaiso University</div><div>Summer 2010 Valparaiso, IN</div><ul style="list-style-type: none">Explored pattern avoidance in ternary trees (combinatorial mathematics) in a team of three undergraduate students under mentor Dr. Lara Pudwell.</div>	
HONORS AND AWARDS	<i>The Reginald B. Allen Prize</i> , Kenyon College, 2013 <i>The Wendell D. Lindstrom Memorial Prize</i> , Kenyon College, 2011	

Undergraduate Poster Session Award, Joint Mathematics Meeting, 2011
Academic Standing - Merit List, Kenyon College, awarded every semester.

PUBLICATIONS *Pattern Avoidance in Ternary Trees*
Nathan Gabriel, Katherine Peske, Lara Pudwell, and Samuel Tay
Journal of Integer Sequences 15 (2012) 12.1.5.
<http://arxiv.org/abs/1110.2225>