


SAM TAY

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education

B.A., Mathematics & Scientific Computing, Kenyon College, 2013.

Thesis: *Logic via Algebra*. Awarded distinction.

GPA: 3.91

publications

Nathan Gabriel, Katherine Peske, Lara Pudwell, and Samuel Tay. 2012. “[Pattern Avoidance in Ternary Trees](#).” *Journal of Integer Sequences* 15:12.1.5.

honors & awards

Phi Beta Kappa Society.

Pi Mu Epsilon National Mathematics Honor Society.

Newman’s Own Foundation Scholarship, Kenyon College, 2009-2013.

Zakov Family Scholarship, Kenyon College, 2011-2013.

John H. Dunlap IV Scholarship, Kenyon College, 2011-2013.

Funding for deserving mathematics majors who have demonstrated excellence in the programming and/or use of computer applications.

Reginald B. Allen Prize, Kenyon College, 2013.

Annual award to a student who the professors of the Department of Mathematics decide has done the most outstanding work in mathematics.

Wendell D. Lindstrom Memorial Prize, Kenyon College, 2011.

Award for extraordinary work by first or second year students in mathematics.

Undergraduate Poster Session Presentation Prize, Joint Mathematics Meeting, 2011.

research experience

Research Assistant

Summer 2011

AstroParticule et Cosmologie

Paris, France

Conducted research investigating the correlation of temperature variation and phase noise for LOT (LISA On Table), an optical simulator for the LISA mission, under Dr. Hubert Halloin.

Research Assistant

Summer 2010

Valparaiso University

Valparaiso, IN

Explored pattern avoidance in ternary trees in a team of three undergraduate students under mentor Dr. Lara Pudwell.

Presented findings at the JMM Undergraduate Poster Session and received the *MAA Outstanding Presentation Prize*.

teaching experience	<i>Math Tutor</i>	Summer 2012
	Independent Support Services	Rock Hill, NY
	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.	
	<i>Lead Tutor</i>	January 2011 - May 2013
	Kenyon College	Gambier, OH
	Attend class and assist with teaching Calculus and Maple syntax.	
work experience	<i>Software Developer</i>	August 2017 - Present
	Wrinkl Inc.	Charleston, SC
	Developed a websocket-driven chat application in Haskell.	
	Leveraged advanced type system features to achieve a high level of code safety.	
	Languages: Haskell, Nix.	
	<i>Software Developer</i>	April 2017 - August 2017
	ExpandShare	Charleston, SC
	Built core features and microservices for a Learning Manage System.	
	Languages: Python, Javascript	
	<i>Applications Engineer</i>	May 2014 - February 2017
	Blue Acorn	Charleston, SC
	Developed reusable modules in an object oriented MVC eCommerce framework.	
	Contributed to internal infrastructure in the form of deployment tools, Hipchat addons, and a docker composition-machine management tool.	
	Languages: PHP, Javascript, Bash.	
	<i>Reporting Analyst</i>	September 2013 - May 2014
	SIB Development & Consulting	Charleston, SC
	Validated client savings using Microsoft Excel and Adobe Acrobat.	