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SAM TAY

852 Centerwood Drive
Charleston, SC 29412

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.*

Math Tutor   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.

Lead Tutor   January 2011 - May 2013
Kenyon College   Gambier, OH

Attended class and assisted with teaching Calculus and Maple syntax.

Software Developer   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.

Software Developer   April 2017 - August 2017
ExpandShare   Charleston, SC

Built core features and microservices for a Learning Manage System.

Languages: Python, Javascript.

Applications Engineer   May 2014 - February 2017
Blue Acorn   Charleston, SC

Developed reusable modules in an object oriented MVC eCommerce framework.

Contributed to infastructure in the form of deployment tools and a docker composition-machine management tool.

Led an agile team and mentored junior developers.

Languages: PHP, Javascript, Bash.

Programming Languages

Fluent in Haskell, Javascript, PHP, Python.

Intermediate experience with C, C++, Bash.

Mathematical Software

Maple, Mathematica, Matlab.

Other Technologies

Docker, Ansible, RabbitMQ, Postgres, MySQL.