SAMUEL TAY

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samtay 🖸

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education

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

Thesis: Logic via Algebra. Awarded distinction.

GPA: 3.91

Class Rank: 16/409

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

Phi Beta Kappa Society

& awards

Pi Mu Epsilon National Mathematics Honor Society

Newman's Own Foundation Scholarship2009-2013Zakov Family Scholarship2011-2013John H. Dunlap IV Scholarship2012-2013

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

Reginald B. Allen Prize

2013

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

Reginald and Bessie Allen Memorial Fund

2011-2012

The income assists a student having exceptional promise in mathematics who is recommended by the chair of the Department of Mathematics.

Wendell D. Lindstrom Memorial Prize

2011

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

MAA Outstanding 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.

teaching experience

Math Tutor
Independent Support Services

Summer 2012 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

Gambier, OH

Kenyon College

Attended class and assisted with teaching Calculus and Maple syntax.

work experience

Software Developer Wrinkl Inc.

August 2017 - Present

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

Charleston, SC

ExpandShare

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.

technical skills

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.