

MATTHEW C. SULLIVAN

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EDUCATION

Trinity College, Hartford, CT

B.S., Mathematics, May 2020

GPA: 3.789

Honors: *cum laude*, Pi Mu Epsilon Math Honors Society, Phi Gamma Delta Prize in Mathematics (First Prize, 2019)

Relevant Coursework: Probability, Mathematical Statistics, Mathematics of Finance, Numerical Analysis

TECHNICAL SKILLS

Languages: Python, Java, R, VBA, PowerShell, SQL, MATLAB, \LaTeX

Libraries: SciPy, NumPy, Matplotlib, GAP

Tools: Excel, Word, PowerPoint, Access, Bloomberg Terminal, SageMath, Anaconda, Stata, Mathematica, PyCharm, VSCode

RESEARCH

Trinity College Summer Research Program

May 2018 — February 2019

Simultaneous Conjugability of Non-Associative Algebras Constructed from Integers Modulo Powers of Two

- Built routines in Python using SageMath libraries in Jupyter notebooks to explore subgroups of the automorphism group of integers modulo 2^n for any n
- Generated a regular lattice presentation of subgroups of this form to illustrate subgroup containment
- Determined an algorithm to exhaustively specify these subgroups for any given n
- Developed an approach to test the simultaneous conjugability of certain non-associative algebras constructed algorithmically from the aforementioned subgroups
- Presented lecture with PowerPoint to research faculty and students regarding findings

PROFESSIONAL EXPERIENCE

Retail Sales Associate

May 2016 — June 2017

RadioShack

East Haven, CT

- Interfaced with customers with a wide variety of needs and levels of familiarity with electronics
- Applied consultative sales approach to solve customers' problems, ensuring projects were completed thoroughly and sales were maximized
- Championed promotional items through conversation and merchandising to meet daily, weekly, and monthly sales targets

Merchandising Execution Associate

January 2014 — December 2014

The Home Depot

Salem, MA

- Proposed change to project scheduling strategy that was adopted regionally; received award from Northeast Regional Merchandising Manager
- Selected to participate in roundtable meetings regarding performance of the newly restructured merchandising team
- Received four "Homer Awards" from management for outstanding performance
- Executed complex merchandising and construction projects independently and in teams under strict time constraints, contributing to our team consistently leading the region in project completion and hours per project

Operations and Service Manager

March 2011 — July 2013

Lincoln Door Systems

Rocky Hill, CT

- Directed team of six overhead door technicians, yielding 35% increase in revenue from service and repair work over 2011
- Specified, approved, and purchased complex, custom-fabricated industrial equipment according to architectural drawings and site walkthroughs, becoming our primary manufacturer's highest-volume dealer in the state in 2012
- Managed all projects from large to small, scheduling all work and acting as primary point of contact for all clients
- Deployed and administered new company-wide CRM software, streamlining communication among sales team members
- Expanded company's web presence by developing a Google AdWords campaign and spearheading the creation of a website

ACTIVITIES

Student Government Association, IDP Representative

September 2017 — May 2020

- Advocated on behalf of Individualized Degree Program students within the larger student body
- Advanced student interests with faculty and administration through resolutions

Budget Committee, General Member

February 2019 — May 2020

- Oversaw roughly \$100,000 worth of Student Activity Fee funds to be disbursed among clubs and student organizations
- Audited student organizations to ensure compliance with student government expenditure rules

Trinity College Investment Club, General Member (Real Estate Sector)

September 2017 — December 2018

- Participated in real estate sector team responsible for approximately 15% of the club's \$500,000 portfolio, with a focus on commercial real estate and REITs
- Prepared due diligence documents for investment proposals and presented them to general club body

Trinity College Investment Management Club, General Member

January 2018 — December 2018

- Managed a virtual portfolio with a quantitative approach to investing
- Conducted valuations employing DCF and comparable models with extensive use of Bloomberg Terminal

Aetna Quantitative Center, Tutor

September 2018 — December 2018

- Tutored students as walk-ins and by appointment in Calculus 1, 2, and 3, Statistics, and Linear Algebra

Curriculum Committee, Student Representative

September 2018 — August 2019

- Voted on faculty initiatives regarding curriculum changes, addition and deletion of courses, and graduation requirements
- Considered student petitions to alter curriculum requirements and create individualized courses of study

Information Technology in Education, Student Representative

September 2018 — May 2019

- Represented students in discussions of changes to Trinity College's information technology infrastructure, including phone and email systems, digital media delivery, and public-facing website

Green Campus, General Member

September 2017 — May 2020

- Promoted sustainable and environmentally friendly practices among school administration and student body
- Organized the annual GreenFest event to raise awareness and foster conversation regarding sustainability practices at Trinity
- Implemented a successful composting program at Trinity dining halls and senior housing, greatly reducing landfill-bound food waste
- Coordinated and attended neighborhood cleanup events in local green spaces

Individualized Degree Program Association (IDPA), Vice President

September 2018 — August 2019

- Planned social and academic events for students in the Individualized Degree Program