

Daniel E. Berlin

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EDUCATION

Duke University, Graduation: May 2021

BS, Computer Science | *Minor*, Financial Economics | **GPA: 3.93/4.0**

Relevant Coursework: Algorithms/Data Structures, Functional Programming, Discrete Math, Linear Algebra, Multivariable Calculus, Physics (Mechanics), Computational Methods, Micro and Macroeconomic Principles, Practical Financial Markets

Chagrin Falls High School, Graduation: May 2017

Cumulative GPA: 4.6/4.0 | ACT: 36/36 | PSAT: 1500/1520

Notable Achievements: National Merit Finalist, Golf State Champion Runner-up, Class Vice President, United States Presidential Scholar Candidate, USGA/AJGA President's Leadership Award, Cum Laude Society

WORK EXPERIENCE

Swagelok, Corporate Engineering Intern, May-August 2018

Cleveland, OH

- Collaborated with computer-aided engineering team in New Product Development
- Designed and implemented a new material test method to characterize polymers, enhancing in-house Finite Element Analysis capabilities
- Assisted with product design and performance simulation, using SolidWorks and Abaqus to assess polymer-sealing ball valves
- Utilized Python to analyze lab test machine data with signal processing techniques
- Performed failure testing to predict the effects of tolerance variation in fittings

Nottingham Spirk, Engineering Research Project, May 2017

Cleveland, OH

- Assisted with SolidWorks modeling and explored new 3-D printer prototyping capabilities

LEADERSHIP & ACTIVITIES

Duke Community Consulting, Associate and Team Director, January 2018-Present

- Generate pro-bono business, technology, and marketing solutions for Durham-based companies

Duke Club Golf, Treasurer, August 2017-Present

- Manage team finances and fundraising, model dues structure, and arrange travel to away tournaments

Big Brothers Big Sisters Duke, Mentor, August 2018-Present

- Provide mentoring support to students at local Durham Public Schools

Piano, Solo and Concerto Performance, 2004-Present

- Carnegie Hall Performance, 3rd Place Golden Classical Music Awards, October 2016
- Carnegie Hall Performance, Cincinnati World Piano Competition, October 2010

LifeAct Youth Advisory Board, President, Board Liaison, May 2015-Present

- Individually raised over \$20,000 to fund depression and suicide awareness education in OH high schools
- Authored a video series to teach peers how to openly discuss depression and suicide

First Tee of Cleveland, Coach and Mentor, May 2017-Present

- Mentor Cleveland youth using the fundamentals of golf as a platform for personal and academic achievement

PROJECTS & ACCOMPLISHMENTS

BlueTriton Mobile App, October 2018-Present

- Design and implement iOS app *BlueTriton* to help Duke students track and plan their nutrition goals at on-campus vendors. Incorporating DukeCard API to link purchases and activity to tracking services

Bullseye Education Mobile App Development, September 2018-Present

- Design of a mobile app for the LA-based Education SaaS startup to serve as a novel addition to existing product

Duke Morgan Stanley Trading Game, September 2018

- First Place trader among 38 Duke students. Generated 8.09% ROI, outperforming S&P 500 by 12% over the period

SKILLS & INTERESTS

Programming Languages: Java, Python, LISP (Scheme), MATLAB, HTML, CSS, JavaScript (React/React Native), Swift

Interests: Classical & Improvisational Piano | Golf | Fitness | Music Composition & Production