Nathan Andersen

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Education

Williams College   *Williamstown, MA*

B.A. in Math, B.A. in Computer Science   *2014 - Exp. Jun. 2018*

- GPA: Math 3.8/4.0 ; Computer Science 3.8/4.0
- Men's Lacrosse 2014-2016

Aquincum Institute of Technology   *Budapest, Hungary*

Semester Abroad

- GPA: 4.0/4.0

Lexington High School   *Lexington, MA*

AP Scholar with Distinction, National Honor Society   *2010 - 2014*

- GPA: 3.9/4.0

Work Experience

Optiver US   *Chicago, IL*

Derivatives Trading Intern: S&P   *Jun. 2017 - Aug. 2017*

- Built a framework to analyze broker trades and retreats to maximize profit-and-loss on the S&P Index products desk.
- Completed a ten-week derivatives trading education program, covering topics from basic Black-Scholes pricing models to trading strategies.
- Completed five weeks of simulated trading in index options products (ES) - trading weekly and monthly expiries.
- Shadowed traders for one hour each day on a variety of different products; market-making desks included S&P, Treasuries, Commodities, Oil, Natural Gas, Gold, and Euro-Dollar; position-taking desks included S&P and Treasuries.

Andersen Mobile Labs (Start-Up)   *Williamstown, MA*

Founder & IOS Engineer   *Feb. 2016 - Present*

- *Eph Meals*: an iOS app to serve Williams College's daily dining services menus, used by over 50% of the student body.
- *OnForte*: a dual iOS and web music player application, complete with web-based backend datastore.

Vistaprint (Cimpress)   *Waltham, MA*

Software Engineer Intern: Quality Analytics   *May 2015 - Sep. 2015*

- Developed a web application to digitally inspect incoming customer documents. Impact: 1,500,000 inspections, $2,000,000 in costs saved.

Software Engineer Intern: Customer Experience Managment   *Jun. 2016 - Aug. 2016*

- Developed an internal API service portal and deployed an open- source API gateway.

Software Engineer Intern: Documents   *Aug. 2016 - Nov. 2016*

- Worked on algorithmic implementations for rendering embroidery designs.

Williams College   *Williamstown, MA*

Teacher's Assistant: Math 341   *Fall 2017*

- *Probability*: Held office hours and graded homeworks for students in post-linear algebra curricular core class.

Teacher's Assistant: CS 135   *Spring 2016, Fall 2016*

- *Diving into the deluge of data*: Held lab and office hours for students, graded homeworks and labs. Python.

Teacher's Assistant: CS 134   *Fall 2015*

- *Intro to CS*: Held lab and office hours for students, graded homeworks and labs. Java.

Courses

Math	Probability, Real Analysis, Advanced Applied Analysis, Abstract Algebra, Linear Algebra, Discrete Mathematics
Applied Math	Operations Research, Regression and Forecasting
Strategy	Leadership and Management, Game Theory, Price and Allocation Theory, Microeconomics, Macroeconomics
Computer Science	Data Mining, Algorithms, Theory of Computation, Computer Architecture, Theory of Programming Languages

Skills

Languages	English, Spanish
Programming	Python, Java, Swift, SQL, R, Node.JS, C/C++, Scala, ML, LaTeX, Git
Applied CS Fields	Data Science, Web Development, iOS, Databases