Nathan **Andersen**

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Education

Williams College
Williamstown, MA

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

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

Lexington High School
Lexington, MA

AP Scholar with Distinction, National Honor Society — *Sep. 2010 - Jun. 2014*

- GPA: 3.9

Work Experience

Optiver
Chicago, IL

Derivatives Trading Intern — *Jun. 2017 - Aug. 2017*

- Completed a ten-week derivatives trading education program, covering topics from basic Black-Scholes pricing to trading strategies.
- Completed five weeks of simulated trading in index options products (ES).
- 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.
- Built a framework to analyze broker trades and retreats to maximize profit-and-loss on the Index: S&P products desk.

Andersen Mobile Labs (Start-Up)
Williamstown, MA

Founder & IOS Engineer — *Feb. 2016 - Present*

- Eph Meals: Built and released an app to serve Williams College's daily dining services menus, used by over 50% of the student body.
- OnForte: Built a dual iOS and web music player application, did not release due to technical library issues.

Vistaprint (Cimpress)
Waltham, MA

Software Engineer Intern (x3) — *May 2015 - Sep. '15 ; Jun. '16 - Nov. '16*

- Quality Analytics Team: Developed a web application to digitally inspect incoming customer orders. Impact: 125,000 inspections, $1,500,000 in costs saved.
- Customer Experience Management Team: Developed an internal API service portal and deployed an open- source API gateway.
- Documents Team: Worked on algorithmic implementations for rendering embroidery designs.

Williams College
Williamstown, MA

Teacher's Assistant — *Jan. 2015 - Present*

- Math 341: Held office hours and graded homeworks for students in post-linear algebra Probability.
- CS 134/5: Held lab and office hours for students in the introductory classes, graded homeworks and labs. Java (134) and Python (135).

Courses

Math	Probability, Real 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, R, Node.JS, C/C++, Scala, ML, LaTeX, Git
Applied Fields	Data Science, Web Development, iOS, Databases