

Nathan Andersen

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Education

Williams College

B.A. IN MATH, B.A. IN COMPUTER SCIENCE

- GPA: Math 3.8/4.0 ; Computer Science 3.8/4.0 ; Overall 3.7/4.0. Dean's List.
- Men's Lacrosse 2014-2016

Williamstown, MA

2014 - Exp. Jun. 2018

Aquincum Institute of Technology

SEMESTER ABROAD

- GPA: 4.0/4.0

Budapest, Hungary

Jan. 2017 - Jun. 2017

Lexington High School

AP SCHOLAR WITH DISTINCTION, NATIONAL HONOR SOCIETY

- GPA: 3.9/4.0

Lexington, MA

2010 - 2014

Work Experience

Optiver US

DERIVATIVES TRADING INTERN: S&P

- 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.

Chicago, IL

Jun. 2017 - Aug. 2017

Andersen Mobile Labs (Start-Up)

FOUNDER & IOS ENGINEER

- *Eph Meals*: an iOS app to serve Williams College's daily dining services menus, now with over 2000 downloads (Swift).
- *OnForte*: a dual iOS and web music player application, complete with web-based backend datastore (Swift, Objective-C, Javascript).

Williamstown, MA

Feb. 2016 - Present

Vistaprint US (Cimpress)

SOFTWARE ENGINEER INTERN: QUALITY ANALYTICS

- Developed a web application to digitally inspect incoming customer documents. Impact: 1,500,000 inspections, \$2,000,000 in costs saved.
- V1: Full-stack Javascript, V2: Back-end C#, Front-end .NET Razor.

Waltham, MA

May 2015 - Sep. 2015

SOFTWARE ENGINEER INTERN: CUSTOMER EXPERIENCE MANAGEMENT

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

Jun. 2016 - Aug. 2016

SOFTWARE ENGINEER INTERN: DOCUMENTS

- Worked on algorithmic implementations for rendering embroidery designs. Back-end TypeScript (JavaScript).

Aug. 2016 - Nov. 2016

Williams College

TEACHER'S ASSISTANT: MATH 341

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

Williamstown, MA

Fall 2017

TEACHER'S ASSISTANT: CS 135

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

Spring 2016, Fall 2016

TEACHER'S ASSISTANT: CS 134

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

Fall 2015

Courses

Math Advanced Applied Analysis, Real Analysis, Abstract Algebra, Linear Algebra, Discrete Mathematics

Statistics Operations Research, Probability, Regression and Forecasting, Statistics and Data Analysis

Economics 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, R, SQL, Java, Swift, C, JavaScript, Objective-C, Tableau, scipy, Scala, ML, LaTeX, Git, Node.JS, HTML, CSS

Applied CS Fields Data Science, Web Development, iOS, Databases