

NICHOLAS A. CARCHEDI

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EXPERIENCE Senior Analyst, McKinsey & Company // 2014 - Present

// Using statistical and machine learning methods to help a public sector client reduce violence and improve safety within its facilities.

// Worked as part of a team that developed sophisticated models for helping a large public sector client project costs and resource availability.

// Developed a web application to help the client explore these projections without expert knowledge of the underlying models.

Student Researcher, Johns Hopkins University // 2013 - 2014 *Department of Biostatistics*

// Conceived, designed, and built the **Statistics with Interactive R Learning (swirl)** educational software platform (see Software Development). Since its inception in 2013, an estimated **300,000 people worldwide** have used swirl to learn **data science and R programming**.

// Cofounded with Johns Hopkins faculty mentors the **Data Science Specialization**, a groundbreaking collection of nine online Coursera courses covering all aspects of the data science process. Over **2,000,000 people worldwide** have enrolled in our courses since Summer 2013.

// Mentored by Brian Caffo, PhD, Jeff Leek, PhD, and Roger Peng, PhD.

Research Volunteer, Johns Hopkins School of Medicine // 2012 - 2013 *Center for Surgical Trials and Outcomes Research (CSTOR)*

// Conducted basic epidemiological research regarding causes, demographics, and outcomes associated with certain surgical procedures. Mentored by Eric Schneider, PhD and Shalini Selvarajah, MD, MPH.

Financial Planning Associate, Northwestern Mutual // 2010 - 2013

// Worked as a key staff member for senior insurance and wealth management advisors. Created financial plans and proposals for high net worth individuals and organizations.

Financial Advisor, Northwestern Mutual // 2007 - 2010

// Earned the CERTIFIED FINANCIAL PLANNER™ designation while building a referral-based financial planning practice from scratch. Counseled clients on insurance and investment planning.

EDUCATION ScM Biostatistics, Johns Hopkins University // 2014

// Cumulative GPA: 3.58

// Relevant Coursework: Methods in Biostatistics I-IV, Essentials of Probability and Statistical Inference I-IV, Introduction to Data Management, Causal Inference in Medicine and Public Health I, Principles of Epidemiology, Introduction to Real Analysis

BS Mathematics and Finance, University of Maryland // 2008
Honors Citation

// Cumulative GPA: 3.374 // SAT: 1440

SOFTWARE DEVELOPMENT **swirl, Statistics with Interactive R Learning // 2013 - Present**
Website: <http://swirlstats.com>
GitHub: <https://github.com/swirldev/swirl>

// swirl is a fun and unique software package that teaches data science and R programming. Students receive immediate feedback as they are guided through self-paced and interactive lessons, allowing them to quickly master new skills in an authentic programming environment.

swirlify, a comprehensive toolbox for swirl instructors // 2014 - Present

Website: <http://swirlstats.com/instructors.html>
GitHub: <https://github.com/swirldev/swirl>

// swirlify allows anyone to create his or her own interactive content for the swirl educational platform, then to share that content with the world or with just a few people. The authoring tools accommodate instructor preference by allowing course authoring in multiple formats.

COMPUTING SKILLS // Data Analysis: R, Stata, SQL, Excel
// Web: HTML, CSS, Shiny
// General Programming: Python (working knowledge)
// Version Control: Git, GitHub
// Document Preparation: Markdown, LaTeX, Microsoft Office
// Operating Systems: Mac, Windows, Linux
// Other: Command line, VirtualBox