

WILL KARNASIEWICZ, CFA

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Professional Experience

The Boulevard Consulting Group, LLC

Arlington, VA

Data Scientist, Development Operations Lead

October 2019 – Present

- Leading and managing a multi-year project incorporating an operational assessment and buildout of a web application for advanced analytics, data reporting, and visualization tools for a Department of Defense (DoD) client
- Led the development of a cloud-based data reporting and performance tracking tool for a DoD client; architected and developed the data collection process with the orchestration of Python-based serverless functions via Amazon Web Services (AWS) Step Functions and PostgreSQL databases within AWS RDS; designed and built the static web application which provides real-time dashboards and analytics, powered by Microsoft PowerBI, and streamlines the organization's data tracking processes
- Independently spearheaded internal development operations modernization efforts to improve company standards on continuous integration (CI) / continuous development (CD), version control systems (git & GitHub), cloud development (AWS) and code quality; currently leading internal effort to modernize IT systems in compliance with the Cybersecurity Maturity Model Certification 2.0
- Served as lead project manager and oversaw the development of Microsoft Excel-based tool sets for improved long-term sustainment and oversight of a globally distributed repairs program for a DoD client; helped to improve data validation and efficiency with machine learning-powered predictions, actionable metrics, and visualizations, while working with their existing technology constraints and data processes
- Collaborated on the execution of a federal government contract to analyze existing systems and build a critical application to optimize mission success and inform stakeholder planning; analyzed numerous data sources, including official documents and open-source materials; built programmatic solution using Python to quantitatively analyze similarities between mission characteristics and visually presented results to stakeholders
- Contributed to firm's business development efforts including authoring technical proposal responses; led responses to market research requests; independently wrote Python-based scripts to automate searching of contracting opportunities
- Led the development of a new site, *Boulevard Insights*, to showcase internal projects and articles on machine learning, artificial intelligence, data science, and process improvement

Accion Venture Lab, Accion International

Washington, DC

Investment and Portfolio Analyst, Interim

September 2018 – February 2019

- Conducted due diligence of potential new investments and follow-on investments in existing portfolio companies by researching comparable companies and similar transaction valuation multiples
- Gathered and analyzed historical data on convertible note financings to better inform investment negotiations
- Developed database of credit metrics for portfolio and industry peers; presented key findings to team
- Supported the management team with operational issues related to the launch of a new fund, including providing information on valuation best practices, drafting a Supplement to the Private Placement Memorandum, and assisting with requests from prospective Limited Partners
- Attended local industry events; served as mentor at a one-day event for the Village Capital Fintech: US 2018 cohort

Andersen Tax LLC

New York, NY

Senior Manager – Valuation Services

July 2016 – March 2018

Manager – Valuation Services

July 2014 – July 2016

Senior Associate – Valuation Services

July 2012 – July 2014

Associate – Valuation Services

December 2010 – July 2012

- Led work representing \$1.5 million in revenue for 2016-17, with double-digit annual growth throughout tenure
- Managed the highest revenue client relationship for 2015-2017, a multi-billion-dollar publicly-traded insurance company; in charge of annual revaluations of various Level III assets (global equity and debt long-term investments)
- Consulted on hundreds of projects valuing equity interests in privately-held entities, business segments, and reporting units ranging in size from nascent-stage VC-backed entities to multi-billion-dollar corporations
- Valued derivatives, including equity options, warrants, embedded conversion features, and employee stock options for fair value reporting (ASC 820); supported results throughout the audit review process
- Appointed valuation representative for the firm's NY venture-backed company business development group and technical/quantitative lead for the NY valuation group, in charge of maintenance and development of best

practices/models and sharing expertise in complex securities, derivatives, and Monte Carlo simulations

- Researched, created, and presented an hour-long webinar entitled How to Value Your Company: From Day One to IPO through Georgetown University; authored multiple articles for Andersen newsletter including Business Valuation and Exit Strategies in Volatile Markets and Valuing Pension Benefits
- As an associate, spearheaded an advanced analysis of general partner interests in three separate commercial real estate private equity funds for a firm with approximately \$5 billion in assets under management

ApaTech, Ltd.

Elstree, United Kingdom

ApaTech was named Britain's fastest growing private medical technology company in 2007 – 2009; it was acquired by Baxter International Inc. for \$330 million in March 2010.

Financial Intern

July 2008

- Calculated revenue forecasts, in collaboration with the Chief Financial Officer, which accurately modeled continued growth in the company's surgical products; audited the company's invoice records for completeness and consistency

Sontag Advisory, LLC

New York, NY

Investment Advisory Intern

November 2007 – December 2007

- Researched and assessed current general economic conditions and reported findings to Portfolio Research Analyst who incorporated information in the monthly letter to clients; expanded the firm's mutual fund and ETF database

Education

General Assembly

Washington, DC

Data Science Immersive Program

May 2019

- Excelled within intensive data science program with curriculum that incorporated data cleaning / EDA, regressions and classifications, natural language processing (NLP), web scraping, APIs, time series, Bayesian statistics, clustering, neural networks, SQL, etc.
- Built a DC/MD/VA beer recommender system; scraped over 100,000 reviews from RateBeer and constructed both content and collaborative-based recommenders with natural language processing of review text
- Developed a supervised NLP model to distinguish Reddit posts from *konmari* and *hoarding* subreddits; built and deployed a web application for the model with Flask and Heroku at sparkingjoy-nlp.herokuapp.com
- Collaborated on a team project to build an interactive Flask web app to automate FEMA's post-disaster inspection process with integration to Google Street View and Zillow APIs

Washington University in St. Louis, Olin Business School

St. Louis, MO

Master of Science in Finance

May 2010

- Overall GPA: 3.7; Treasurer of Olin Quantitative Finance Club, and Member of Olin Finance Club

Georgetown University

Washington, DC

Bachelor of Arts, Major: Economics; Minor: Mathematics

May 2009

- Overall GPA: 3.5; Dean's List (3 semesters)
- Member of GU Student Investment Fund, GU Collegiate Investors, GU Club Tennis, and Georgetown Math and Science Hands-On Enrichment tutoring program
- University of Sydney, Australia, Study Abroad Program, Fall 2007, *Distinction*

Additional Information

Technology Skills:

- Programming / Development: Python, including: NumPy, pandas, scikit-learn, Matplotlib, Seaborn, Jupyter, BeautifulSoup, Selenium, Keras/TensorFlow, Flask, Django; SQL; AWS; Docker; GitHub; Tableau
- Finance/Business Tools: Microsoft Office & VBA, S&P Capital IQ, Bloomberg, Oracle Crystal Ball, Factset

Certifications and Clearances:

- CFA Charterholder (Passed exams on first attempt, 2010 – 2012; awarded charter in 2014)
- Completed *Advanced Risk and Portfolio Management (ARPM) Bootcamp* – August 2019
- Active SECRET clearance (Granted March 2020)

Other Interests:

- Golf, Tennis, Squash, Homebrewing, Cooking/Baking, Hiking and Traveling