

# FEGA OKWA

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## PROFILE

Highly motivated Applied Math graduating senior with strong analytical and interpersonal skills gained through studies and extensive work experiences.

## EDUCATION

**Wentworth Institute of Technology, Boston, Massachusetts**

**Expected Dec. 2019**

Bachelor of Science in Applied Mathematics, GPA: 3.1/4.0

Courses: Partial Differential Equations, Time-Series Analysis, Advanced Statistics, Operations Research

## SKILLS & MEMBERSHIPS

- Python, SQL, Microsoft Excel, Java, R, MATLAB
- Society for Industrial and Applied Mathematics (SIAM)

## RELEVANT WORK EXPERIENCE

**AIR Worldwide, Boston, MA, *Software Development-Technical Writer Intern***

**May-Aug 2018**

- Researched loss estimates from Hurricanes and the insurance cover needed by residents of Florida
- Developed technical manuals that explained how proprietary risk analysis software worked
- Used ArcGIS to map catastrophes in Europe, America and Southeast Asia

**State Street Corporation, Boston, *Enterprise Demand Management Intern***

**Jun-Aug 2017**

- Designed and built fully functioning database to retrieve business case files over a 7-year period
- Analyzed over 50GB of IT business case files aggregating and archiving important information
- Researched and recommended a database management system to meet the needs of the IT team

**Financial Derivative Company, Lagos, Nigeria, *Equity Research Intern***

**May-Jun 2016**

- Conducted country analyses of South Africa and Angola to support economic strategy presentation for General Electric held at the Lagos Business School
- Collaborated with research team on a presentation to the Nigerian National Assembly for the "2015-2025 Capital Market Master plan," including evaluation of effectiveness of the master plan and recommended strategies on implementing the plan
- Prepared equity research reports utilizing financial modeling and valuation analysis skills

## PERSONAL PROJECTS

**Time-Series Analysis, *Built an ARIMA Model to Forecast Sales Data***

**Fall 2018**

- Built an ARIMA Model in R with a 95% confidence interval to forecast sales data of a retail company
- Validated the model using the Box-Ljung Test, and achieved a MSE of 4.11

**Operations Research, *Built a Mean-Variance Optimization Model***

**Fall 2018**

- Built an Optimization Model based on Modern Portfolio Theory using Microsoft Excel Solver
- Portfolio was made up of TSLA, AAPL, GOOG, BABA; Expected return: 0.175, Sharpe Ratio: 0.8

## LEADERSHIP EXPERIENCE

**Wentworth Finance & Investment Club, *Co-founder & President***

**Ongoing**

- Currently lead and teach Trading Strategies of the club using the Quantmod package in R
- Use Technical Indicators, such as SMA to predict trends in the market

**Fencing, *Part of the Nigerian Fencing Team***

**Ongoing**

- Inaugural member of the first ever Nigerian Fencing Team at the 2015 African Championship's in Egypt