

# Michael Long

[www.linkedin.com/in/michael-long88/](http://www.linkedin.com/in/michael-long88/) | [www.mlong.me](http://www.mlong.me)

Marine Corps veteran turned data scientist, committed to making a difference by transforming large-scale data into practical solutions

Statistical Concepts: Linear Regression, Logistic Regression, Time Series, Text Analysis, Machine Learning  
Programming: Python | SQL | JavaScript | HTML | CSS | Rust | R | SAS  
Certifications: PCEP - Certified Entry-Level Python Programmer

## EDUCATION

Master of Science in Analytics May 2023  
Institute for Advanced Analytics, NC State University, Raleigh, NC

Bachelor of Science in Computer Science | Magna Cum Laude | Minor: Mathematics December 2018  
University of North Carolina at Charlotte

## PRACTICUM

Government Agency  
Scrum Lead / Program Liaison

- Conduct network and sentiment analysis on two years of social media forum text data
- Build machine learning models using Python to predict forum thread length and duration based on entities and user interaction
- Develop dynamic visualizations in open-source software to clearly communicate results
- Lead sprint planning and retrospectives

## EXPERIENCE

RTI International Raleigh, NC  
Software Engineer January 2020—June 2022

- Converted Go code to Python for ETL procedures to provide better readability and maintainability
- Developed features for, and helped open-source, the Vue.js plugins Harness-Vue and Harness-Vue-UI
- Developed FastAPI backend template for internal full-stack project use
- Communicated project milestones and demoed features for two web applications as lead developer

Consultants to Government and Industries (CGI) Charlotte, NC  
Software Engineer February 2019—January 2020

- Created Python unit test framework for Kafka-based parser program
- Refined the quality assurance process for a legacy Java application that transmits health insurance claim images

Software Engineering Intern June 2018—July 2018

- Created a C# .NET web application which tracked meeting attendees, project health, project and meeting scorecards, and the current project reviewer for engineering review meetings

United States Marine Corps US  
Public Affairs Liaison, Barracks Manager, Squad Leader, Team Leader July 2006—October 2014