

2551 Tanager Court,
Marietta, GA, 30062

ALEX WOODS

(770)-653-1296
alexhwoods@gmail.com

EDUCATION

Atlanta, GA

Georgia Institute of Technology

Anticipated Graduation May
2018

- B.S. in Computer Science
- GPA 4.0

Experience

- IT Intern, **Verizon**, Summer 2015 - During the summer of 2015 I worked at Verizon using machine learning to catch fraud. I created numerous machine learning models and did comprehensive work in **Python** and **R**.
- alexhwoods.com - I maintain a blog about machine learning and data science at this url.
- Tutoring - I tutored math and physics through Axon Tutors (Calculus I & II, Statistics, Physics I & II, Computer Science)

Projects

- **GarageBuddy**: For a class at Georgia Tech, my team and I built an website to assist in throwing garage sales. Imagine a very simplified eBay.
- **Monte Carlo**: A friend and I are currently designing a poker application. Our intent is to have a fully functional web application soon, and then spend our time working on the computer player, since poker is a great real world situation to implement machine learning algorithms, and it's not as developed as chess or more recently, Go. See the code [here](#).

Skills / Technologies

- **Machine Learning** - Good understanding of underlying theory, as well as practical applications of machine learning algorithms using Python (scikit-learn) and other tools (Julia, R). View blog for examples / projects.
- **Software Engineering** - Experience using Java Play, Python, JavaFX, and Swing. Familiar with design patterns and project management principles such as Agile.
- Data Analysis, Data Manipulation - Experience using R and Python (pandas, dplyr, etc.) for exploratory analysis and manipulation. Also have experience using SQL.
- Data Visualization - Multiple years of experience using R (ggplot2) and Processing.
- My username on **GitHub** is [alexhwoods](#).
- Portuguese (fluent, 2 years).

Interests

- **Machine Learning, Scientific Computing, Software**
- Data Science, Data Visualization

Relevant Coursework

- Current - Data Structures and Algorithms, Probability, Databases
- Past - Software Development, Design Principles
Calculus (through multivariable), **Linear Algebra**, Discrete Math, **Combinatorics**,
Statistics, Physics (I & II)