

Aleks Navratil

AleksNavratil.com
avn2109@columbia.edu

Data Scientist, PhD dropout, guy who solves problems

Immigration Status: US Citizen

Education

- Dropped Out **PhD Mechanical Engineering**, *Columbia University*.
Got a MS before leaving. Research focus: Graphene materials for aerospace
- Awarded **BA/BS Mathematics/Mechanical Engineering**, *Columbia University*.
2012 Double major in Math and Engineering

Real Jobs

- '14— **Data Scientist**, *Collective Media*, NYC.
- Ongoing
- Ad-tech data science in midtown Manhattan
 - Modeling and analytics in R, Python, SQL, and Hadoop
- '11—'14 **Data Engineer/Grad Student**, *Energy and Tribology Lab*, Columbia University.
- Python/Pandas/NumPy/Matplotlib on Ubuntu for computational research in graphene
 - Led a team of 3 engineers to the fastest provisional patent in Lab history (18 weeks)

Internships

- Summer '12 **Data Analytics Engineer—Graduate Intern**, *Tyco Electronics*, Hershey, PA.
- Summer '11 **Database Guy—Intern**, *Traylor Heavy Civil, Underground Division*, NYC.
- S. '09 & '10 **Computational Materials—Intern**, *Argonne National Lab*, Chicago.
- Summer '08 **Quant Marketing—Intern**, *PrintingForLess.com*, Livingston, Montana.

Skills

- R Intermediate: 2 years experience in industry. Lots of glmnet, plyr, and ggplot
- Python Intermediate: 2 years experience in 2.7, mostly with Pandas; some Django
- Hadoop 2 years experience with Hive, Oozie, Impala, and some Spark
- SQL 2 years experience with Postgres, SQLite, Netezza, Hive, and Impala. Some Spark.
- Java & C++ Beginner: 1 semester classroom experience each
- Mathematica Intermediate: 2 years experience. Mostly scientific work

Achievements & Awards

- April 2013 **NSF Graduate Research Fellowship**: Honorable Mention
- Feb. 2013 **US Provisional Patent**: Lightweight carbon composite material for aerospace
- 2010 & 2011 **R. Simperman Endowed Scholarship**: 2-year consecutive winner (A competitive scholarship for undergraduates in Mathematics and the Sciences)
- 2009 & 2010 **MCM International Mathematical Contest**: 2-year consecutive Meritorious Winner (an international mathematical contest with thousands of entrants)

Personal

- CU Ski Team Team qualified for USCSA Nationals in '12 and '13 in slalom and giant slalom
- Interests Squash, Basketball, Thai food, typography & design
- Spanish Conversational. Spent a summer in Madrid