

SAMEER PUNJAL

✉ sameerp93@gmail.com 🌐 eskeype.github.io ☎ 724.980.7920 in skpunjal 🌐 eskeype

EDUCATION

University of Pittsburgh

BS Mathematics 2015
Minor in Computer Science
GPA: 3.53

Independent University of Moscow

Math in Moscow 2015
Study Abroad Program

EMPLOYMENT

PNC Financial Services Group

Application Developer

Pittsburgh, PA
Sep 2017 - Jan 2018

- Developed and optimized regulatory financial models in Python using pandas and PySpark for DFAST & CECL
- Developed model input validation engine for PNC's regulatory modeling platform
- Built proof of concept software to predict PNC loan defaults
- Performed ad hoc data analysis on PNC's credit portfolios

Technology Development Program Analyst

Aug 2016 - Sep 2017

- Developed tools using Python and Oozie to automate ETL tasks in Hadoop cluster
- Wrote scripts to track data lineage in Teradata database maintaining records for \$5B+ in corporate loans
- Assisted in research and deployment for streaming architecture in Hadoop cluster
- Shadowed several teams within the organization to gain broad exposure to PNC's technology roles

Technology Intern

May 2016 - Aug 2016

- Created daily automated reports on retail fraud for PNC's executives using scikit-learn and DataRobot
- Worked with 3rd party vendors to test products and help assess their utility for PNC's big data architecture
- Trained in Apache Spark development and large scale data science
- Gained exposure to enterprise big data architecture within the financial services industry

University of Pittsburgh

IT Data Analyst, Clinical and Translational Sciences Institute

Pittsburgh, PA
May 2015 - Sep 2015

- Designed weekly automated reports on research registry data using SQL and Excel for institute directors
- Created data visualizations for leadership to help identify trends in data and aid in decision making
- Developed software tools in SQL, MATLAB, and Python to format data for analysis and applications

Philadelphia Water Department

Water Quality Modeling Intern

Philadelphia, PA
Apr 2013 - Sep 2013

- Developed software resources to interpret water quality sensor data in MATLAB
- Utilized time series and filtering techniques to help interpret and clean data
- Developed scripts to perform formatting tasks

PROJECTS

Competitive AI Platform

- Developed a platform to train and test AI game players in two-player games like Connect 4 and Tic Tac Toe
- Developed a reinforcement learning engine that learns nearly perfect Tic Tac Toe play after 5,000 training games

Algos - Open Source Project

- Contributed efficient implementations of number theoretic algorithms in C++
- Wrote unit tests and simplified project's testing workflow
- Advised other contributors on efficient algorithm design techniques

Braille Reader

- Designed proof of concept of a tablet that raises bumps to produce readable Braille for arbitrary text file inputs
- Led team of five programmers and engineers to create prototype using Arduino
- Awarded funding from a local business after presenting prototype

SKILLS

Java, Python, C, C++, Arduino, MATLAB, SQL, Apache Spark, Git, Agile, Data Structures, Algorithms, Machine Learning