ANDRES BEREJNOI

Python Developer (5+ years) / Data Scientist

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EXPERIENCE

Forex Trading Engine Developer
MERX (Software Dev. Startup)

🗓 Feb 2019 – Present ⚲ Santa Cruz,Bolivia

- Research and development lead of a forex trading engine with FIX protocol for sending orders using the Quickfix framework.
- Implementation of a system for market data consumption and a charting widget.
- Data pre-processing and handling for algorithmic technical analysis in trades.

Graduate Teaching Assistant
Computer Science Department, University of Arizona

🗓 August 2017 – May 2018 ⚲ Tucson, Arizona

- Development of teaching material for classes in the Computer Science department at the University of Arizona.
- Hosting regular consultation office hours for students

Undergraduate Teaching Assistant
Computer Science Department, Berea College

🗓 August 2014 – May 2017 ⚲ Berea, Kentucky

- Lab sessions for helping students in several CSC core classes.
- Managing other teaching assistants during lab sessions
- Creating class material such as quizzes and assignments

Undergraduate Researcher
Computer Science Department, Berea College

🗓 May 2014 – July 2014 ⚲ Berea, Kentucky

- Study of embedded devices (raspberry pi and arduinos) to run computer vision applications.
- Development of a car counting system for traffic analysis.
- Clear communication of results by writing a blog and paper about the project.

ACHIEVEMENTS & AWARDS

- 4-year full scholarship ($130K) from Berea College (2013-2017)
- First place at DerbyHacks II hackathon with computer vision project (SnapCal)
- First place at CatHacks III hackathon with Alexa skills (HelloBanking)
- Second place at Gatton FinTech Challenge
- Presented undergraduate chemistry research at Kentucky Academy of Science (KAS)
- Member of Epsilon Pi Tau honor society during college
- Added to Dean's list at Berea College

EDUCATION / COURSES

PhD Student of Computer Science
University of Arizona

🗓 August 2017 – May 2018

Computer Science/Chemistry B.A.
Berea College

🗓 August 2013 – May 2017

PROJECTS

FIX (Financial Information eXchange) Engine

- Developed and implemented a semi high-frequency trading engine using the open source framework Quickfix and Python.
- The system has a mode for manual use and for automated trading by using technical indicators, and it is built completely with open source libraries and software.

NetBuilder

- Implemented a Python package for easily creating fully connected neural networks and training them with gradient descent.
- Developed the project as an installable package that can be installed with pip: "pip install netbuilder"

SnapCal (DerbyHacks II)

- Computer vision app to count calories in food from one picture.
- Used transfer learning on tensorflow model Inception V3 to fit project needs.

HelloBanking (CatHacks III)

- Developed a voice operated banking app for Amazon Echo (Alexa skill) for hands-free access to account info.
- Integrated banking API to allow users to login with their credentials.

Traffic Counter

- Implemented a cheap and fast traffic counter for embedded devices to analyse traffic at streets and intersections near Berea College.

SKILLS

Python, Numpy, Pandas, Linux ●●●●●
C, C++, OpenCV ●●●●○
Stock Market, OpenCV ●●●●○
Flask, Tensorflow ●●●○○
Data Scraping ●●●○○
Deep Learning, Neural nets ●●●●○
English, Spanish ●●●●●