Josh Higgins

EXPERIENCE

Software Engineer, MediaMath – Audience
Durham, NC — September 2015 - present

Audience Engineering supports data science team that builds predictive models for optimal online advertising performance.

- Built REST API for all MediaMath Audience requests through TerminalOne, MediaMath's demand side platform. Runs on AWS API Gateway. Implemented database tables and columns to support new functionality.
- Part of a team of four who design and maintain full stack internal web app for Audience data science team using Python/Flask/SQLAlchemy/React. UI testing in Selenium and unit tests in pytest.
- Implement and run daily ingestion and formatting process for all Audience data. Python job on EC2 instance imports data from S3 then formats and exports to Redshift (400M events daily). Use Redshift data structures and queries to create custom attributes for modeling process based on category, event type and timestamp.
- Built on demand autoscale EC2 job to process data and create models for new advertisers.
- Create weekly python process on AWS EMR to query data on S3 using Hive and Spark.

Python Engineering Course, The Iron Yard
Durham, NC — 2015

Intensive twelve week course on the fundamentals of programming in Python, web development with Django and REST APIs.

- Analyzed data from nationwide building rating system. Built Django REST framework API for site.
- Built full stack Django web app with Bootstrap front end to create shortened URLs and track their use.

Proprietary Trader, Chimera Securities
Chapel Hill, NC, Boston, MA, and New York, NY — 2009 to 2015

Proprietary trader focused on intraday trading of highly volatile NASDAQ and NYSE securities. Series 7, 63, 55 licensed.

- Delivered double digit returns each year of trading.
- Opened local office in NC

CONTACT

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Chapel Hill, NC 27514

SKILLS

Python, JavaScript, React, REST API design, Django, MySQL, PostgreSQL, Bootstrap, HTML, CSS, pytest, Selenium, Flask, SQLAlchemy, Pyspark, AWS (EC2, EMR, S3, API Gateway, Lambda, Redshift, Aurora, SQS, Boto3)

REFERENCES

Tom Robinson
Product Manager, MediaMath

John Haws
CEO, Taurus Math and Technology

Jared Gerstenblatt
Founder, Chimera Securities

PREVIOUS WORK

E*Trade Securities - New York, NY
Proprietary Trader, 2005-2009

Momentum Securities - NY, NY
Proprietary Trader, 2000-2005

Varsitybooks.com - Washington, DC
Operations Associate, 1999-2000