Michael J. Clawar

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Data Engineer and venture founder with three years of experience designing and building end-to-end data pipelines that ingest terabytes of raw data and reliably and quickly deliver data viz and machine learning-driven real estate insights in the browser. Ran a real estate data science company serving top investors and developers in US real estate. Self-taught Kubernetes, AWS, and geospatial/data viz for custom and off-the-shelf client apps in Python.

Experience

StratoDem Analytics (Boston, MA) – **Co-founder & Managing Partner**   **May 2015 – Present**

Data science platform provider for real estate investors, developers, and advisory services firms

- **In a nutshell: Full-stack founder. Architecture + Analytics + Data Viz + Product Dev + Sales + Janitor**
- Led product development with three other software engineers to create analytics pipeline and product that:
  - ☐ Ingested and created 10 terabytes of governmental and other third-party or client data with Bayesian, network, and ML models in custom-built data pipeline deployed on AWS with Python and Kubernetes
  - ☐ Designed, tested and maintained client geospatial applications with Python (Flask/Django) and React
- Ran team of four to develop marketing campaign with 70% open rates (2x average) and 20% conversion rates (4x average) for product demos of target-specific portfolio analysis at real estate conferences
- Successfully secured $250,000 angel investment in May 2016
- Clients included: Top 3 global PE fund; Top 5 PE fund in senior housing; Top 5 acquirer of US home builders

Reach Advisors (Albany, NY) – **Predictive Analytics & Strategy Consulting Analyst**   **Jan. 2013 – June 2015**

Hypothesis-driven strategy, research, and predictive analytics firm focused on emerging macro and micro shifts

- Mined client data to target customers with 12% greater than average probability of being net promoter for client to counter competitors' market entry and identify source of $3-4M annual loss in potential sales
- Designed, implemented, and ran study on neighborhood-level land pricing discrepancies to identify and recommend prime investment locations for billion-dollar multifamily development project at REIT

Autonomy Capital (London, UK) – **Research Assistant**   **Feb. 2014 – Apr. 2014**

Research arm of asset management firm specializing in macro investing across developed and emerging markets

- Worked with team of three research economists to develop Eurozone monitoring system
  - ☐ Created equilibrium exchange rate model for Euro to locate periods of exchange rate misalignments
  - ☐ Built pricing model for Euribor futures contracts to improve forecasting of European Central Bank policy

Education

MA Mathematics (Statistics), *Boston University*, **2016** (*Summa cum laude*)

BA Mathematics & BA Economics, *Boston University*, **2016 (***Summa cum laude*)

Relevant Coursework: Computational Statistics; Statistical Analysis of Point Process Data; Game Theory; Mathematics of Financial Derivatives; Econometrics; Statistical Analysis of Network Data

Skills

- **Python**: pandas, scikit-learn, tensorflow, psycopg2, OSS contributor to Dash by Plotly
- **JavaScript**: React + Redux, OSS author of pandas-js and sd-material-ui (Dash components based on material-ui)
- **Data & architecture**: PostgreSQL; Redis; Parquet; Redshift; Kubernetes; EC2; AWS Lambda; S3
- **Miscellaneous**: CSS/SCSS; Experienced in Microsoft Excel; R; Stata; Java; EViews; Bloomberg Terminal

Achievements & Awards

- Elmer B. Mode Prize in Statistics (2016) – Top student in the Boston University Statistics department
- College Prize for Excellence in Economics (2016) – One of three economics students in class of 250
- Boston University Trustee Scholar – Full-tuition academic merit scholarship; one of seven in class of 3,900
- Phi Beta Kappa Award (2014) – Academic achievement; one of four Boston University third-year students
- U.S. Presidential Scholar Semifinalist (2012); National Merit Scholar Finalist (2012); National Advanced Placement (AP) Scholar (2012); Harvard Book Award (2011)