H. Chase Stevens

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PROFESSIONAL EXPERIENCE

Senior Manager, Data Engineering at **Poloniex**   April 2022 - Present
Manager, Data Engineering at **Poloniex**   April 2021 - March 2022

- Built out high-seniority, 4-person Data Engineering team to perform comprehensive rehaul of legacy ELT systems, while also managing 5-person Data Analyst group
- Migrated in-house data processing service to new event-driven, DBT-based platform, hosted on AWS services (Redshift, ECS/Fargate, DMS, MSK, SQS)
- Introduced streamlit, Apache Superset, & DeepNote, enriching analytics reporting

Principal Data Science Engineer at **Teikametrics, Inc.**   July 2019 - April 2021
Senior Data Science Engineer at **Teikametrics, Inc.**   December 2017 - July 2019

- Served as tech lead for 12-person Data Science group, providing technical vision and mentorship to drive successful projects
- Architected core machine learning training and serving platform atop AWS Sage-Maker, allowing rapid prototyping with CI/CD pipelines (see "Conferences")
- Adapted and improved existing Scala-based automated bidding technology to new advertising products, directly enabling over \$1m/yr in additional revenue
- Created transformer- & RNN-based deep learning models for regression and control

Software Engineer at **Curata, Inc.**   April 2017 - November 2017

- Within R&D, leveraged NLP, ML, and optimization techniques to develop and bring new features from conception to production, using Jupyter, nltk, spaCy, and d3.js

Software Engineer at **Skyscanner, Ltd.**   May 2013 - February 2017

- Performed business-critical operations for Sequoia-Capital-backed startup, contributing to a successful \$1.7bn exit; produced codebase audit requisite to acquisition
- Maintained highly-available web scraping platform and Python framework, parsing over 10 GB/s of data to serve more than 5000 requests/second
- Created AST-based tooling allowing real-time code analysis, manipulation, generation, and automated quality assurance in multi-million line legacy Python codebase

EDUCATION

University of Edinburgh: *MSc. Artificial Intelligence*   2015 - 2016
Specialism in Natural Language Processing
Dissertation: *Applying Statistical Language Modeling to Genetic Programming*

University of Edinburgh: *MA Hons. Cognitive Science*   2011 - 2015
First-class honours
Dissertation: *Understanding Referential Coordination as a PSO Task*

SKILLS

- Code: Python, Scala, SQL, Haskell, Matlab
- Data: PostgreSQL, Snowflake, Airflow, DBT, Protobuf, Avro, XPath, Hadoop
- Build/Deployment: Docker, AWS, Heroku, CircleCI, RPM

CONFERENCES & LECTURES

2023. "AI Art: Under the Hood." Barn Gallery. Ogunquit, ME, USA.

2020. "Painless Machine Learning in Production." EuroPython 2020. Online.

2018. "Exploring the Python AST Ecosystem." EuroPython 2018. Edinburgh, UK.

2015. Stevens, H. C. & Rohde, H. "Modeling Referential Coordination as a Particle Swarm Optimization Task." The 19th Workshop on the Semantics and Pragmatics of Dialogue. Gothenburg, Sweden.

SELECTED OPEN-SOURCE PROJECTS

- bellybutton: linting engine for Python, allowing custom rulesets via AST queries
- monkeys: strongly-typed genetic programming framework
- hypothesis-protobuf: property-based testing utility for Protocol Buffer messages
- avro2py: Apache Avro schema code generation tool for Python