

DAVID A. VENTIMIGLIA

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SUMMARY

I am a software engineer and former scientist seeking opportunities in back-end systems development, distributed systems, data infrastructure, and data science. My core technical skills comprise Java and SQL, but I have experience with many other tools and languages including shell scripting, Python, jupyter notebooks, R, Erlang, TensorFlow, OpenCV, Keras, machine learning, linear algebra, statistics, cloud infrastructure, and database systems.

EXPERIENCE

Nov, 2016—Present. Sabbatical @ My House:

- Tools: Python, jupyter, OpenCV, TensorFlow, Keras, Erlang, Erlang/OTP, Java, GNU Octave, pandas, SciPy, Conda
- Courses: Self-Driving Car Nanodegree Program, Functional Programming in Erlang, Concurrent Programming in Erlang, Algorithms I, Algorithms II, Machine Learning

Feb, 2016—Oct, 2016. Cloud Infrastructure Engineer @ Guidewire Software:

- Tools: Java, Python, Amazon Web Services, HashiCorp stack, Docker
- Developed and implemented strategies for adapting Guidewire's core applications for the cloud

Nov, 2013—Feb, 2016. Data Warehouse Engineer @ SayMedia:

- Tools: Java, Python, SQL, Amazon Web Services, PostgreSQL, MySQL, AirFlow, Jenkins, Apache Hive, Cascading, Presto, Tungsten Replicator
- Performed ongoing development and support for SayMedia's data warehouse
- Developed Extract, Translate, and Load (ETL) pipelines to integrate new data sources into the data warehouse
- Migrated the data warehouse and platform services into Amazon Web Services (AWS)

Jun, 2013—Oct, 2013. Senior Software Engineer @ Ask:

- Tools: Java, Python, GNU Bash, SQL, Pentaho, redis
- Rewrote a reporting pipeline to increase throughput and reliability

Dec, 2012—May, 2013. Software Engineer @ AnythingSocial:

- Tools: Javascript, backbone.js
- Ongoing development and support of web apps for AnythingSocial clients

Apr, 2010—Dec, 2012. Senior Software Engineer @ Guidewire Software:

- Tools: Java, JUnit, SQL, Oracle, Microsoft SQL Server
- Ongoing development of Guidewire's core applications
- Performance testing and optimization

Jul, 2006—Mar, 2010. Research Assistant @ Michigan State University:

- Tools: theory, simulation, IDL, Fortran, C, Python, matplotlib, Enzo, R
- Applied simulated annealing to quantify galaxy cluster morphology
- Applied information theory to model the power of cluster surveys.
- Analyzed X-ray temperature substructure in galaxy clusters
- Simulated X-ray surveys of galaxy clusters

EDUCATION

Sep, 2005—Dec, 2012. Michigan State University:

Ph.D. Theoretical Astrophysics

Sep, 1989—Jun, 1993. Michigan State University:

B.S. Astrophysics