

Cynthia Krafft

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Skills and Qualifications

- Python client development; data analysis in Python, SAS, Matlab, and SPSS
- Google App Engine, AWS, SQL, and NoSQL
- 6+ years of quantitative cognitive neuroscience research

Experience

ARIVALE

Research Developer II, January 2016 - present

Working across the stack to build our personalized wellness platform in which we analyze and interpret health data (e.g., genetics, microbiome). Selected contributions to date:

- Built infrastructure for machine learning pipeline to generate clinical recommendations.
- Created Postgres models and Flask backend for clinical review UI.
- Built system to parse and alert on clinical data automatically on upload to Amazon S3.
- Integrated with third party vendor to store shipping updates and create notifications.

CASTLIGHT HEALTH

Software Engineer, August 2015 - January 2016

Key member of the Action Opportunities team, a group aiming to apply machine learning to healthcare data. Primary accomplishments include:

- Pulled user medical data from Postgres to validate machine learning models designed to infer users' medical context from insurance claims.
- Developed tool to replay historical data from Postgres through ensemble machine learning models (e.g., random forest) and summarize results in matplotlib graphs.

STRIIV

Software Engineer, January 2015 - July 2015

Took ownership of our cross-company data initiative in which I:

- Root-caused problems triggering data integrity issues which led to a reduction in the number of users affected by 50%. Discovered issues with firmware timestamps and crashes by cross-checking logs across multiple components.

Also responsible for integrating with third party APIs to let users access data on other platforms.

UC DAVIS SCHOOL OF MEDICINE

Postdoc researcher, July 2013 – December 2014

Built a tool to automatically parse participant stimulus response outputs. Because this was previously manual process, this reduced errors by >10% and improved turnaround time by 50x. Performed neuroimaging analyses (statistics in Python, SAS, and specialized neuroimaging software) which led to multiple publications.

UNIVERSITY OF GEORGIA

Graduate research assistant, August 2008 – May 2013

My dissertation (funded by an NSF Graduate Research Fellowship) investigated the effects of an exercise intervention on children's brain structure and function (e.g., DTI, fMRI), resulting in first-author publications in *Neuroscience*, *Obesity* and *Developmental Neuroscience*.

Education

UNIVERSITY OF WASHINGTON	Prof. M.S. (Comp Sci)	In progress	3.8 GPA
SAN JOSE STATE UNIVERSITY	Comp Sci coursework	2014-2015	4.0 GPA
UNIVERSITY OF GEORGIA	Ph.D. (Psychology)	2013	3.7 GPA
UNIVERSITY OF SOUTH CAROLINA	B.S. (Psychology)	2008	3.9 GPA