

MAXWELL FISCH

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DATA SCIENTIST

Data Scientist with an extensive background as a Root Cause Failure Analyst with a history of highly analytical work. Proven success in combining modern data science tools with a wide breadth of engineering skills. Demonstrated career history of exceeding project deliverables and corporate performance metrics.

Python Pandas Numpy | SQL | MongoDB | AWS Spark | Matplotlib Plotly Seaborn | SKlearn SciPy

DATA SCIENCE EXPERIENCE AND PROJECTS

Production Value

2019

Data Science Capstone Project

Identifying Record Producers from Audio Data Using Machine Learning

- Accurately predicted record producer 4 times better than the baseline.
- Built a platform that queries audio data from Spotify and returns likely producers and similar songs based on a KNN model. See the whole project at github.com/mhfisch/production-value.

Galvanize

2019

Data Science

12 weeks of immersive data science coursework, case studies, and projects.

- Mastered fundamentals of modeling, machine learning, hypothesis testing, and linear algebra.
- Extensive experience with Python libraries, including: Numpy, Pandas, pyspark, PyMongo, Scikit-learn, Statsmodels, Scipy, Matplotlib, Seaborn, Nltk (Natural Language Toolkit), and BeautifulSoup.
- Learned industry workflow tools and best practices, utilizing Git, Unix, Anaconda, bash scripting, SQL, MongoDB, AWS, and Spark.

PROFESSIONAL WORK

Western Digital

2016 – 2018

Senior Engineer

Determined root cause in failure analysis for customer return hard drives via materials science and data analysis.

- Published engineering reports and communicated failures to lab managers, customers, and executives.
- Isolated failure sources on flagship product by utilizing materials characterization resulting in 75% reduction in failure.

Levi Lab, UC, Santa Barbara

2012 – 2015

Graduate Research Fellow

Built apparatus and designed experiments for measurement of high-temperature water vapor transport of Ca-Mg-Al-Si (CMAS) Oxides.

- Demonstrated a novel vapor-transport CMAS ingress mechanism using a custom experimental rig.
- Analyzed infiltration of CMAS oxides with thermal barrier coatings via materials characterization and microscopy.

Cooper Bussmann

2011 – 2011

Engineering Intern

Conducted a design of experiments for electrolytic super capacitor materials and suggested design improvements.

- Optimized super capacitor capacity and reduced leakage through a DOE varying materials selection and capacitor design.

Maboudian Lab, UC Berkeley

2010 – 2012

Undergraduate Researcher

Qualified failure mechanisms of a MEMS devices

- Presented results at a conference
- Co-authored three papers.

EDUCATION

Master of Science in Materials, UC Santa Barbara

NSF Graduate Research Fellow. Overall GPA: 3.79|4.00

Bachelor of Science in Chemical Engineering and Materials Science, UC Berkeley

Certificate in Technology and Entrepreneurship from Center for Entrepreneurship and Technology.

Regents' and Chancellor's Scholar, Overall GPA: 3.70|4.00

Extra Interests: Theater, Music, Cooking, Board Games