

Duncan Calvert

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SUMMARY

Data scientist with 7+ years of experience leveraging cutting-edge technologies to build great products. I am passionate about solving complex problems, contributing to open-source software, continuing learning, and fostering meaningful professional relationships.

PROFESSIONAL EXPERIENCE

Wells Fargo Bank

CHICAGO, IL / San Francisco, CA

VP, Senior Lead Data Product Manager

Jan 2024 - Present

- Serving as lead developer, product manager, and vendor manager on an enterprise-wide internal application supporting 15,000 data scientists, analysts, engineers, and business users
- Building a suite of intent-driven and LLM-based RAG chatbots that automate 30% of total user support tickets
- Managing 100+ RPA automations to ensure risk and operations are handled systematically, eliminating 300 payroll hours a week
- Architecting a recommendation engine-powered news feed for internal employees
- Designing and developing dynamic application user interfaces that span mobile, tablet, and browser using Microsoft Power Apps, JavaScript, HTML, and CSS

Lead Quantitative Analytics Specialist

Jan 2022 - Jan 2024

- Enterprise-wide lead for AutoML (DataRobot, Driverless AI) and big data processing on-premise platforms supporting 51 deployed models with an ROI of \$108MM
- Trained data scientists in modeling and big data processing frameworks (PySpark, Hadoop, PyTorch, etc.)
- Founded *The Paper Collective*, a biweekly academic paper discussion and research group with 30+ monthly active users

Artificial Intelligence Solutions Consultant

Apr 2020 - Dec 2021

- Technical product manager for the end-to-end model development life cycle supporting 26 models with a ROI of \$71MM

Associate Artificial Intelligence Solutions Consultant

Apr 2019 - Mar 2020

- Facilitated data discovery and documentation for AI modeling efforts spanning hundreds of databases
- Developed, quantified, documented, and tracked AI business use cases

Apple, Inc.

Cupertino, CA

Data Analyst

May 2018 - Mar 2019

- Developed geospatial datasets using Python and SQL that powered the backend of Apple Maps and Apple Location Services
- Collaborated with data scientists to curate high-quality machine learning training data

EDUCATION

University of Chicago

2021-2024

M.S., Applied Data Science

GPA: 3.97

- Coursework: *Time Series Analysis and Forecasting, Natural Language Processing and Cognitive Computing, Supply Chain Optimization, Machine Learning Operations, Machine Learning, Data Mining, Linear Algebra, Data Engineering, Statistics, Linear and Non-Linear Modeling*
- Thesis: *Autonomous Drone Swarms & Robotics*

University of California, Berkeley Extension

2017-2019

Post Baccalaureate Coursework, Software Development and Programming

GPA: 4.0

- Coursework: *Python Programming, Cybersecurity, Database Management, JavaScript and jQuery, Data Science, SQL*

University of California, Santa Barbara

2012-2016

B.A., Political Science and History

TECHNICAL SKILLS

Languages: Python, SQL, R, JavaScript - jQuery/React, HTML, CSS, YAML, JSON

Data Science: Pandas, NumPy, SciPy, Scikit-learn, PyTorch, TensorFlow, XGBoost, OpenCV, DataRobot, Driverless AI, Vertex AI, Gensim, NLTK, Gen AI/LLM, Model Garden

Data Engineering: PySpark, PostgreSQL, Hadoop, BigQuery

Product Management: Jira, Confluence, Agile, Scrum, Kanban, MS Planner, Excel, Word, PowerPoint

Tools & Platforms: Git/GitHub, Linux, Google Cloud Platform (GCP), Amazon Web Services (AWS), Tableau, Power BI, MS Power Apps, MS Power Automate, MS Copilot Studio, VS Code, PyCharm, Anaconda

CERTIFICATIONS

- Neo4j Graph Data Science Certification | Aug 2024 - No Expiration Date
- Google Cloud Platform - Certified Cloud Digital Leader | Feb 2024 - Feb 2027
- Core Designer, Dataiku | May 2022 - No Expiration Date
- Python 3 Programming Specialization, University of Michigan | Apr 2021 - No Expiration Date
- Google IT Support Professional Certificate, Google | Dec 2020 - No Expiration Date
- Google Analytics Individual Qualification, Google | Mar 2019 - Oct 2021
- IBM Applied AI Professional Certificate, IBM | May 2020 - No Expiration Date
- DataRobot Essentials Certification, DataRobot | Jan 2020 - No Expiration Date
- Crimson Hexagon Advanced Certification, UCSB | 2016 - No Expiration Date
- Multiple FEMA Certifications, FEMA | 2016 - No Expiration Date
- INSZoom Power User, INSZoom | Jan 2017 - No Expiration Date
- Google Web Designer Basics, Google | Mar 2019 - No Expiration Date

PAPERS, PROJECTS, AND PUBLICATIONS

SkySearch, *Lead Developer*

2024-Ongoing

- SkySearch is an open-source Python package that allows simple, flexible, and robust DJI drone swarm capabilities tailored for search and rescue

WorkBench: a Benchmark Dataset for Agents in a Realistic Workplace Setting, *Reviewer*

2024

- A benchmark dataset for evaluating agents' ability to execute tasks in a workplace setting. WorkBench contains a sandbox environment with five databases, 26 tools, and 690 tasks

KScanner, *Lead Developer*

2023

- KScanner is a novel combination of DBSCAN and K-Means clustering that uses automated Epsilon and MinPts approximation to identify the correct model parameters for DBSCAN

Assorted Programmatic Visual Art, *Lead Developer*

2018-Ongoing

- In-browser visual art rendered with JavaScript, CSS, and HTML