Akshay Kamal

Email: akshayckamal@gmail.com

Phone: (650) 810-6587

LinkedIn: https://www.linkedin.com/in/akshaykamal

Website: https://ackamal.github.io

EXPERIENCE

- **Allbirds** — San Francisco, CA
  Software Engineer I — *Dec 2021 – Present*
  - Migrated data infrastructure from dbt Cloud onto a self-hosted containerized solution using Dagster, resulting in a 30% reduction in annual cloud expenses and improving data pipeline efficiency through DAG orchestration
  - Ingested data from key business artifacts and visualized them in Looker, enabling 100+ daily access to business critical analytics without buying additional software licenses
  - Built custom data connectors for retail analytics services using AWS Lambda and Fivetran, ingesting performance metrics into the Allbirds data warehouse and providing sales leaders with key business insights
  - Designed and implemented data pipelines to ingest, process, and analyze developing product data using Snowflake and dbt, enabling precise modeling and measurement of product costs and $20M-$25M reduction in cost of goods sold

- **Amazon** — Seattle, WA
  SDE Intern — *June 2020 – September 2020*
  - Implemented a Python-based CLI configuration tool allowing team data scientists to schedule Spark jobs more efficiently, reducing the time spent configuring predictive recommendation workflows by 33%
  - Built a predictive data model to create book recommendations based off of eBook completion data using Scala and Amazon EMR (Elastic MapReduce), identifying new indicators of customer product interest

- **HP Enterprise** — San Jose, CA
  Software Engineering Intern — *June 2019 – September 2019*
  - Built a custom data dashboard interface using SQL/MX and jQuery for Nonstop SQL customers, enabling users to dynamically generate visualizations of their query usage and its effects on their distributed systems
  - Created a predictive anomaly detection system using Python and a variety of clustering algorithms to classify atypical system usage by customers
  - Designed a top-level notification system using Python, Apache Qpid, and jQuery to alert customers via e-mail when collected system metrics indicated dangerous behavior

- **University of California, San Diego** — La Jolla, CA
  Computer Science and Engineering - Instructional Staff — *Jan 2018 – June 2021*
  - Presented software engineering methodologies in discussion sections and designed and oversaw technical labs in CSE 110 (Software Engineering) under Professor Griswold
  - Held weekly office hours and oversaw technical labs in CSE 15L (Software Tools and Techniques) and CSE 12 (Data Structures and OOP) under Professor Gillespie

- **Mammoth Biosciences** — San Francisco, CA
  Software Engineering Intern - Full Stack — *June 2018 – September 2018*
  - Reduced work load latency by 40% using a Django-based web app allowing users to design experiment files and immediately initiate experiments on lab machines from one machine-independent location
  - Built interface where users could create experiments, save configurations, and capture/store data from lab machines into a remote MySQL DB

TECHNICAL SKILLS

- **Languages**
  - Python, SQL, LookML, JavaScript, Java, HTML5/CSS3, C++, Bash

- **Technologies**
  - AWS, Snowflake, Dagster, dbt, Looker, Docker, PySpark, Django, React, Adobe Photoshop

EDUCATION

- **University of California, San Diego** — La Jolla, CA
  Bachelor of Science in Computer Science; GPA: 3.4 — *Sep 2017 – June 2021*