Akshay Kamal

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Experience

- **Amazon Books** — 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, allowing 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 – Present*
  - 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
  - Optimized over 2GB of AWS Lambda scripts, routing computationally intensive tasks through an EC2 server and reducing compute time by 20%
  - Vastly improved the amount of time spent designing experiments, leading to increased research output from lab technicians

Technical Skills

- **Languages**
  - Python, JavaScript/ES6, Java, HTML5/CSS3, C++, SQL, Bash
- **Technologies**
  - AWS, Django, React, Apache Qpid, Vertica, Adobe Photoshop

Education

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

Projects

- **Roommate Engagement and Needs Tracker**
  - Mobile application (Android/iOS) designed to centralize roommate communication, collect rent payments, and coordinate schedules