Lakshay Maharana

(669) 210-2680 • lakshaymaharana1@gmail.com • lakshaym30

EDUCATION

University of Illinois at Urbana-Champaign **May 2024**
Bachelors of Science in Computer Science + Economics *G.P.A 3.82/4.00*

- *Minors:* Statistics
- *Honors:* James Scholar (top 12% of class); Dean's List (top 20% of class)
- *Relevant Coursework:* Data Structures and Algorithms, Applied Linear Algebra, Algorithms and Models of Computation, Introduction to Computer Systems, Statistical Programming in R, Web Programming, Natural Language Processing, Database Systems

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, C, C++, Java, SQL, HTML/CSS, Swift
Tools & Technologies: Google Cloud Platform, AWS, Firebase, React, Angular.js, Git, MongoDB, Node.js, Express, Pandas, NumPy

EXPERIENCE

Supermark.ai *San Francisco, CA*
Co-Founder *June 2023 –*

- Developed and launched Supermark.ai, a collaborative project with a team of two other members, utilizing Weaviate Vectorstore to index OpenAI embeddings of text bookmarked for efficient semantic search capabilities with <5s response time
- Designed and implemented a user-friendly Chrome extension with 100+ downloads, allowing users to bookmark relevant content, integrating seamlessly with the Supermark.ai interface developed in React.js
- Utilized Firebase to securely store user authentication details and bookmarks, ensuring data integrity and privacy and hosted Docker-containerized application on Google Cloud Platform
- Earned $5,000 from LanceDB (YC W22) through pitch competition and marketed product to 5,000+ potential customers online

SnapLogic *San Mateo, CA*
Software Engineering Intern *May 2023 – August 2023*

- Developed an innovative text-based UI application empowering users to configure 200+ ELT pipelines for data transformation within Cloud Data Warehouses
- Leveraged Python, OpenAI API, and Azure to create a backend with <10 second response, saving 95% of user development time
- Utilized n-gram models with KeyBERT models to map 100+ ELT keywords to catalog examples for prompt engineering with ChatGPT

Hewlett Packard Enterprises *San Jose, CA*
Software Engineering Intern *May 2022 – August 2022*

- Created ETL data migration pathway in Python for preprocessing 6,000,000+ entries from Teamwork API into Microsoft SQL Server
- Developed 40+ DataFrames using Pandas for preprocessing JSON data and PyODBC library for filling SQL server tables
- Passed certification to become HPE Aruba Mobility Associate (ACMA) and successfully deploy WLAN networks in enterprise settings

Improving User Retention for Community-Based Social Media Platforms *Champaign, IL*
Undergraduate Researcher *January 2022 – August 2022*

- Compiled Python script using ConvoKit Reddit API to develop post, comment, and author metadata for 1,000+ subreddits
- Developed program using scikit-learn and statsmodel package for Multiple Linear Regression and Gradient Boosting Decision Tree models in order to determine relationship between 15+ post features and user retention
- Read and wrote 5 summaries regarding Dr. Hari Sundaram's research on voting patterns and community based social media platforms

AloaLabs *Remote*
Software Engineering Intern *May 2021 – July 2021*

- Developed Python script utilizing Google Cloud Firestore and Numpy to automate project performance audit system for 30+ projects
- Implemented AWS Lambda Functions and S3 Buckets with script to improve audit time by 10+ hours/week
- Wrote technical blogs related to project and web development for company reaching 5,000+ company newsletter subscribers

PROJECTS & LEADERSHIP

IMDB Sentiment Analyzer *February 2023 – March 2023*

- Developed an convolutional neural network using PyTorch to determine sentiments of 25,000 IMDB movie reviews
- Implemented 5 layers into neural network including embedding, dropout, and linear to accurately determine sentiment of reviews
- Refitted model to account for overfitting and trained on 5,000 movie reviews resulting in 82.66% accuracy

MyFridgeCookBook *November 2022 – December 2022*

- Utilized Spoonacular API and Axios module to fetch data for 1,000,000+ recipes and ingredients based on user keyword search
- Implemented React Router, Firebase, and React Hooks to develop a component-based website with live search and filtering aspects
- Hosted project on Gitlab by deploying CI/CD pipelines with ESLint to publicize website to fellow classmates and instructors

San Francisco Road Networks Visualizer *November 2021 – December 2021*

- Constructed graph using adjacency lists of each node's edges to represent connections among 180,000 roads in San Francisco
- Wrote Dijkstra's shortest path and BFS algorithm in C++ to find shortest path between all roads and starting input road in graph