KAUSHIK DAIV

+1 (424) 768-8603 | kdaiv001@ucr.edu | linkedin.com/in/kaushikdaiv/

EDUCATION

Master of Science - Computer Science   September 2022 - December 2023 (Expected)
University of California Riverside | GPA: 3.93/4   *Riverside, CA*
Coursework: *Design & Analysis of Algorithms, Cloud Computing and Cloud Networking, Information Retrieval & Web Search, Principles of Distributed Computing, Advanced Operating Systems*

Bachelor of Engineering - Computer Engineering   August 2016 - April 2020
Savitribai Phule Pune University | GPA: 8.44/10   *Pune, India*
Coursework: *Advanced Data Structures & Algorithms, Database Management Systems, Object Oriented Programming*

SKILLS

Technical Skills	Python, Java, REST API, Flask, Shell Scripting, HTML, CSS, Javascript, Hadoop, MapReduce, Spark
Software Development	Docker, Kubernetes, Google Cloud, Android Studio, Git, MVC, SDLC, JIRA, CI/CD, Scrum, Agile
Databases	MySQL, MongoDB, NoSQL, ElasticSearch, Firebase, Firestore

WORK EXPERIENCE

Teaching Assistant (CS009A) - *University of California, Riverside*   January 2023 - March 2023
Grader (CS009A)   April 2023 - June 2023
- Facilitated instruction for over **80 students** by **conducting labs** on the basics of **Python** and **holding office hours** to address students' doubts

SVC Info Developer - *Hewlett Packard Enterprise, India*   December 2020 - June 2022
- Developed automation scripts using **Python and Shell script** for repetitive tasks like health check activities of eSIM servers, log analysis, etc. **saving up to 4-man hours each day**
- Implemented optimized **SQL** queries for the manipulation of data from a huge database of Vodafone Idea users
- Coordinated with clients for testing features and successfully resolved critical production issues
- Trained and supervised new team members through knowledge transfer sessions

Android Developer (Freelance) - *Jeevanvidya, India*   May 2020 - November 2020
- Designed and developed an android application for inventory management and **tracking day-to-day sales of greater than $600 per day**
- Performed **CRUD** operations using **Java** and **Cloud Firestore** for selling books, facilitating offline read and writes on the database in the areas with low internet connectivity
- Programmed functionality for seller login with **OTP authentication** on phone number using **Firebase Authentication**

Android Developer Intern - *Script Lanes, India*   January 2019 - February 2019
- Collaborated with a team to design and develop an android app for daily news updates by implementing **MVC** architecture
- Developed a feature using **Java** to retrieve and parse a **JSON** object containing news articles from a URL using **Volley** and displayed these articles using **Picasso** and **Recycler view**
- Implemented cache service using **JAVA shared preferences** which **minimized loading time by 40%**

ACADEMIC PROJECTS

PatentSearch   January 2023 - March 2023
- Developed a patent search engine in **Python** and integrated **ElasticSearch for indexing** patent data, also leveraged **BERT indexing** to improve the accuracy of the search
- Crawled Google Patents and **scraped over 15,000 patents** using **Scrapy** while handling deduplication
- Designed a user-friendly UI for patent searching using **HTML, CSS, and Flask** for an accessible and intuitive interface

Container placement optimization   January 2023 - March 2023
- Implemented a container placement algorithm on **Google Cloud** using a **best-fit bin packing** approach in **Python**, **reducing VM instantiation cost by 67%**
- Leveraged **Stackdriver API** to gather & analyze VM resource utilization data to inform container placement decisions
- Created a custom wrapper, **"customctl"** around kubectl using **Shell and Python scripts** to deploy containers on **GCP VM instances**, streamlining the container deployment process and improving overall project efficiency.