

SAGAR PATHARE

☎ (720) 736-5361 ✉ Sagar.Pathare@colorado.edu 🌐 sspathare97 📄 sspathare97 🏠 Boulder, CO

EDUCATION

Master of Science in Computer Science

University of Colorado Boulder; GPA: 4.0/4.0

Dec. 2022 (Expected)

Boulder, CO

Bachelor of Engineering in Computer Engineering

University of Mumbai; CGPA: 9.01/10.0

May 2019

Mumbai, India

TECHNICAL SKILLS

Languages: C/C++, JavaScript, Python, Java, TypeScript, SQL, GraphQL, HTML/CSS

Databases: MySQL, PostgreSQL, MongoDB, DynamoDB, Redis

Frameworks and Libraries: GoogleTest, Node.js, Express.js, Object.js, Jest, Flask, NumPy, pandas, scikit-learn

Tools: Git, AWS, Docker, Kubernetes, Kafka, GitHub Actions, Postman, Swagger, Jupyter Notebook, Jira

EXPERIENCE

Software Engineer Intern

Meta Platforms, Inc. (formerly Facebook, Inc.)

May – July 2022

Bellevue, US

- Worked on Meta's Archival Storage system, which stores **exabytes** of data across multiple regions using **thousands** of worker machines in a **distributed** environment
- Implemented a new rate limiter algorithm that is more **responsive** to the availability of resources and incoming workloads. Led the **design** discussion around a notion of priority based on SLA violations and implemented it
- Created a CLI tool that **safely** allows making otherwise **risky** configuration changes and documented its usage
- Identified a common usage pattern across the codebase and developed a **company-wide** shared utils library for it

Software Engineer

LiftOff LLC

June 2020 – July 2021

Bangalore, India

- Developed a **HIPAA compliant** web application for appointment booking with multiple third-party integrations; configured a CI/CD pipeline with over **95%** test coverage
- Devised COVID-19 Rapid Test Cassette result analysis algorithms based on feature detection using **OpenCV**
- Upgraded and maintained a feature-packed REST API Node.js boilerplate with ORM Framework, DB Migration and Seeding, Worker/Scheduler, Performance Monitoring, Logging, CI/CD, and Testing

Co-Founder and Software Engineer

Delineate Innovations Pvt. Ltd.

July 2018 – May 2020

Mumbai, India

- Developed scalable web applications as a full stack developer and UI/UX designer
- Built **lightweight cross-platform** apps for Web, Android, and iOS as well as engaging Progressive Web Apps
- Performed data analysis on the usage data and wrote a script for automatically generating the monthly reports

PROJECTS

News Buff

Jan. – April 2022

- **Led** a team of five to design and develop a web application to visualize global news on an interactive world map. Performed sentiment analysis on **3.5 million** news articles from 78k geocoded locations over the past 122 years

Weather Monitoring System

Oct. – Nov. 2021

- Created a system of **IoT Weather Stations** using Raspberry Pi and sensors which records weather data at different locations and sends regular interval notifications and alarm notifications to the users

Prediction of Email Opens

Aug. – Sept. 2020

- Processed over **20 million** records of consumer demographic data, used resampling methods on imbalanced data classes, and applied ensemble machine learning techniques for targeted email marketing based on demographics

ACHIEVEMENTS

- Received **Lloyd Botway Award** from CU Boulder Department of Computer Science for outstanding academics, teaching, research, and service to the department **April 2022**
- As the **founding chair** of CU Boulder Computer Science Graduate Professional Development Club, hosted coding contests and events related to mock interviews, industry outreach, alumni connect, etc. **Sept. 2021 – Present**