

# SAGAR PATHARE

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

## EDUCATION

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### 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

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

**Databases:** PostgreSQL, MySQL, DynamoDB, MongoDB, Redis

**Frameworks and Libraries:** Node.js, Hapi.js, Object.js, Swagger, PM2, Jest, NumPy, pandas, scikit-learn

**Cloud:** Heroku, AWS: EC2, Lambda, VPC, SQS, API Gateway, RDS, ElastiCache, S3, CloudFront, Elastic Beanstalk

**Tools and Software:** Git, Docker, GitHub Actions, GitLab, JIRA, VSCode, Postman, Jupyter Notebook, Selenium

**Knowledge:** Data Structures & Algorithms, Web Scraping, CI/CD, Testing, Data Analysis, Machine Learning

## EXPERIENCE

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### 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
- Implemented a **role-based access control** filter policy on the API server to prevent unauthorized access to data

### Software Engineer (Contract)

ProDT Consulting Services Pvt. Ltd.

Feb. – May 2020

Pune, India

- Designed and developed a **highly scalable and fault-tolerant 100% serverless** application with Node.js backend on AWS for flight search and ticket booking using AWS Lambda, DynamoDB, and SQS
- Built a web scraper and scraped flight data of more than **1 million** records from metasearch engines

### 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
- **Led and mentored** a team of interns for a consultancy project

## PROJECTS

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### 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

### Smart Dustbin

Feb. – April 2019

- Designed and developed a prototype of a dustbin for **segregation of wet and dry waste** based on the captured image using a deep learning model in Python deployed on Raspberry Pi (Paper presented in IC-ISCN 2019)

## ACHIEVEMENTS

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- As the **chair** of the CU Boulder Computer Science Graduate Professional Development Club, hosted problem-solving sessions, seminars, and competitions **Sept. 2021 – Present**
- Received **research grant** from the University for final year project ‘Smart Dustbin’ **March 2019**
- Received **full scholarship** for Codechef Certified Data Structures and Algorithms Programme (CCDSAP) foundation exam by securing the best rank in the institute **Nov. 2017**