Vasant Kumar Mogia

linkedin.com/in/vasant-mogia/

✉ vasant.mogia@gmail.com
✎ dscmatter.github.io
○ github.com/dscmatter

EDUCATION

Madhav Institute of Technology and Science   Gwalior, MP
Bachelor of Technology – Information Technology   *Sept 2023 – Present*

Delhi Public School Vijaipur   Guna, MP
Applied Sciences & Computer Applications   *June 2021 – May 2023*

PROJECTS

TechNews API   Link
JavaScript, Express, NodeJS, PostgreSQL
- Delivered **real**-time tech news via a serverless RESTful API, handling **100+** daily requests on a free-tier server.
- Enabled adoption with **RapidAPI** integration and **Insomnia**-tested, low-latency endpoints.
- Managed **100+** articles with **PostgreSQL** for efficient, real-time data retrieval under resource constraints.

AWS Serverless Email Marketing   Link
AWS (Lambda, SES, S3, EventBridge, IAM), Python, HTML/CSS
- Built **serverless** email marketing with AWS **Lambda**, **SES**, **S3**, **EventBridge**, and **IAM**.
- Merged **S3** contacts with templates in **Lambda** to send **SES** emails, reducing prep time by **80%**.
- Automated delivery via **EventBridge** to schedule emails and **IAM** for secure, timely campaigns.

URL Compressor   Link
Go, Gin, Redis
- Developed a fast URL compressor using **Go**, **Gin** & **Redis** handling over **5,000+** URL shortening requests per minute with **99%** uptime for efficient shortening and redirection.
- Designed a **RESTful API** for generating personalized **short URLs** cutting response times by **30%**.
- Implemented **Redis** caching for URL storage, boosting retrieval speed by **90%** and decreasing average latency by **60%.**

MediAnalytics   Link
Python, NumPy, Pandas, Matplotlib, seaborn, Jupyter Notebook
- Improved data accuracy by **80%** by preprocessing **1,000+** senior health records and handling inconsistencies and missing values.
- Highlighted key health trends by building **10+** visualizations using **Matplotlib** and **Pandas**.
- Boosted early risk detection by **40%** by applying anomaly detection to identify **20+** high-risk indicators.

SKILLS

- **Languages**: C/C++, Python, Go, JavaScript, SQL, HTML/CSS, LaTeX
- **Technologies**: Git, Docker, AWS, Firebase, NodeJS, Express, Redis, Gin, pandas, Matplotlib, Linux

EXTRACURRICULAR

- **Open Source Contribution** | GSSOC, Hacktoberfest, Others
  - Refactored project structures, cutting onboarding time by 40% for new contributors.
  - Authored clear technical docs, streamlining collaboration and best practices.
  - Opened 5+ issues and PRs.
- **Certification:** Datacom Software Development Job Simulation (Feb 2025) – Forage
  - Reviewed a web application, planned improvements, fixed and identified bugs to enhance performance.