

Vasant Kumar Mogia

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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, L^AT_EX
- **Technologies:** Git, Docker, AWS, Firebase, NodeJS, 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.