

MOHD AJMAL RAZA

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TECHNICAL SKILLS

Languages: JavaScript, HTML, CSS, Python, SQL

Developer Tools: VS Code, Git, GitHub, Postman

Technologies/Frameworks: Node.js, Express, PostgreSQL, MongoDB, React, REST APIs

PROJECTS

SnapVault – A Photo Collection and Search API

May 2025

Tech Stack: Node.js, Express, Sequelize, Supabase (PostgreSQL), Jest

- Built a feature-rich RESTful API enabling users to **save, tag, and search photos** with authentication and access control.
- Integrated **Supabase PostgreSQL** to persist user photos, tags, and search history securely in the cloud.
- Implemented a flexible **tagging system** to organize photos and built **search-by-tag** functionality with **date-saved sorting**.
- Implemented **user-specific search history** endpoints to support activity tracking and enhance UX continuity.
- Applied **strict request validation** and enforced **service-layer checks** for **data integrity**.
- **Testing:** Wrote modular test suites using Jest and Supertest covering services, routes, and validations. Maintained isolated `.env.test` config and separate test DB on Supabase.

File Upload Microservice

May 2025

Tech Stack: Node.js, Express, Multer, Sharp, Cloudinary, Sequelize, PostgreSQL, JWT

- Built a secure image upload microservice with JWT authentication and protected upload endpoint.
- Handled file validation, resizing (via **Sharp**), and upload to **Cloudinary** via backend API.
- Stored metadata (URL, size, format) into **PostgreSQL** using Sequelize ORM.
- Implemented JWT-protected 'POST /upload' endpoint and middleware-driven file handling with **Multer**.
- Maintained clean folder structure with modular routes, controllers, middlewares, and services.

OAuth Server – GitHub and Google Login

Jun 2025

Tech Stack: Node.js, Express, OAuth2.0, JWT, Cookies

- Implemented secure login system via **OAuth 2.0 Authorization Code Flow** without Passport.js for complete backend control.
- Handled token exchange manually with GitHub/Google, and stored session state using **HTTP-only signed cookies**.
- Protected the `/profile` route to allow access only after login, and configured **cross-domain cookies** with **CORS and SameSite settings** for seamless frontend-backend session handling on Vercel.
- Facilitated seamless front-back session flow using JWTs stored in cookies, improving developer flexibility for client apps.

EDUCATION

Mahatma Jyotiba Phule Rohilkhand University, Bareilly
B.Tech. in Computer Science and Information Technology

2016 – 2020
Bareilly, Uttar Pradesh