# What is the purpose of using each service

| **AWS Service** | **Purpose** | **Why You Use It** |
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| **Amazon S3** | Resume uploads, mock dataset storage | Scalable object storage for user-uploaded files |
| **Amazon API Gateway** | Entry point for frontend to backend Lambda functions | Secure and scalable REST interface |
| **AWS Lambda** | Microservices for resume processing, job fetching, AI recommendations, etc. | Serverless, pay-as-you-go, perfect for modular design |
| **Amazon DynamoDB** | Stores job data, user resume versions, application tracking | NoSQL, low-latency reads/writes, scalable |
| **Amazon Cognito** | User sign-up/sign-in, session management | Easy integration with web apps, supports federated identity |
| **AWS CloudWatch** | Logs, metrics, alarms | Debug Lambda execution, monitor health |
| **Amazon VPC** | Secure networking layer for Lambda and databases | Isolate resources, control network flow |
| **Amazon Secrets Manager** | Store API keys, GPT tokens, DB credentials | Secure and manageable way to protect secrets |
| **Amazon IAM** | Permissions for each service | Control access securely across Lambda, S3, DynamoDB |
| **AWS Step Functions** *(Optional)* | Orchestrate Lambda flows (e.g. resume → analysis → versioning) | Improve manageability for chained logic |
| **Amazon Route 53** *(Optional)* | Custom domain routing | Professional domain for JobQuest Navigator |
| **AWS Amplify / S3 Static Hosting** *(Optional)* | Host frontend if using React SPA | Simple hosting option with CI/CD from GitHub |