# Implementation

| **Phase** | **Tasks** | **Services Involved** |
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| **1. User Authentication** | Set up Cognito User Pool + Frontend login flow | Cognito |
| **2. API & Backend Setup** | API Gateway + Lambda modules per feature | API Gateway, Lambda, IAM |
| **3. Resume AI** | Integrate GPT via Lambda → OpenAI API securely | Lambda, Secrets Manager |
| **4. Job Listings** | Fetch and store job data in DynamoDB via Adzuna API | Lambda, DynamoDB |
| **5. Resume Storage** | Store resume uploads in S3 + version metadata in DynamoDB | S3, DynamoDB |
| **6. Application Tracker** | Build CRUD endpoints for applications/resumes | Lambda, DynamoDB |
| **7. Interview Prep & Company Research** | GPT-based suggestion engine + LinkedIn data | Lambda, GPT API |
| **8. Monitoring & Alerts** | Enable logging, metrics, alerts | CloudWatch |
| **9. Frontend Deployment** | Use S3 static site hosting or Amplify | S3, CloudFront or Amplify |
| **10. Security & Networking** | Use IAM roles, VPCs for secure Lambda access | IAM, VPC, Secrets Manager |