

# Abhinav Gera

Software Engineer

☎ +91-7527901209

✉ abhinav.gera12@gmail.com

🌐 [linkedin.com/in/abhinav-gera12](https://www.linkedin.com/in/abhinav-gera12)

## Experience

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### Altrum AI

Jul 2024 – Present

Software Engineer - 1

- Designed Python microservices and Golang inference systems for scalable backend SaaS operations.
- Built and documented REST APIs; collaborated on integration and specification design.
- Managed PostgreSQL and DynamoDB, optimizing queries for performance and reliability.
- Configured logging for system observability, debugging, and reliability.
- Worked with AWS for deploying and managing scalable cloud infrastructure.
- Developed API proxies integrating OpenAI, AzureAI, Gemini, Anthropic, and Bedrock.
- Implemented a risk mitigation agent for real-time violation resolution.
- Utilized asynchronous Python and Litellm for enhanced performance and AI capabilities.

### Aligne

Apr 2024 – Jun 2024

Software Engineer Intern

- Developed a banking app backend using FastAPI and Pydantic for data validation.
- Integrated secure user data storage in MySQL with JWT authentication and RBAC.
- Used Docker to containerize applications, enabling efficient deployment and scaling.
- Ran unit tests and resolved bugs via log analysis to ensure robust performance.
- Learned backend dev best practices and API architecture in real-world projects.

## Skills

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**Programming:** Python, Golang, SQL, NoSQL

**Libraries:** Django, FastAPI, Scikit-learn, TensorFlow, Numpy, Pandas, Matplotlib

**Databases:** PostgreSQL, DynamoDB, MySQL

**Cloud & DevOps:** AWS (EC2, ECR, S3, EKS), Docker, Baseten, Git, GitHub, GitLab

**Tools:** VS Code, PyCharm, Anaconda, Jupyter Notebook, Postman, Jira

**Soft Skills:** Communication, Team Collaboration, Problem Solving, Attention to Detail

## Projects

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### Altrum AI

- Developed a secure user-facing endpoint for proxy interaction, enabling safe Request/Response interception and persisting session data in a robust database schema.
- Contributed to the design and deployment of a risk compliance system using Large Language Models (LLMs) as guardrails, enforcing ethical, security, and compliance standards across platform operations.

### Banking Database Connectivity

- Created a secure banking backend with Python and SQL for user transactions.
- Ensured robust data handling and transaction safety across modules.

### Dog Breed Detection Model

- Trained classification model on Kaggle dataset using scikit-learn and TensorFlow.
- Used MobileNet, preprocessing, and iterative evaluation for accurate predictions.

## Education

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Bachelor of Computer Applications (BCA)

Jul 2019 – May 2022