

Muhammad Hamza Sial

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🌐 <https://linkedin.com/in/hamzasial1911/> 🔄 <https://github.com/hamzasial1911>

SKILLS

Languages: C/C++, Java, Python, JavaScript, TypeScript, SQL

Frameworks & Libraries: React/Next.js/Remix, Node.js/Express, Spring Boot, Django/Flask/FastAPI/Pyramid, Kafka

DevOps & CI/CD: Docker/Kubernetes, Jenkins/GitHub Actions, Terraform/Ansible, Git, AWS (EC2, S3, Lambda, SQS, ECS), Azure (App Services, Functions), Google Cloud (Compute Engine, Kubernetes Engine, Cloud Run, Cloud SQL, BigQuery), Serverless options like Vercel, DigitalOcean (droplets, vps)

Databases: SQL (PostgreSQL, MySQL), NoSQL (MongoDB, Cassandra, Redis), Graph databases (Neo4j), Pinecone/Qdrant (Vector)

AI/ML Tools: GitHub Copilot/Cursor/Antigravity, TensorFlow/PyTorch (ML frameworks), Perplexity/Deep Research, LangChain/Hugging

WORK EXPERIENCE

Lead Engineer (APAC Region), Turing 🌐 07/2024 – present | Contract

- Designed AI automations using Python, FastAPI, RAG, PostgreSQL, Redis, and GCP; enhanced workflow efficiency; accelerated AI training iterations for teams.
- Automated evaluation pipelines; streamlined data processing; delivered integral tools improving result quality.
- Led core team on labeling tools with NumPy; optimized processes remotely; boosted productivity through collaborations.
- Developed LLMs with reinforcement learning, APIs, Pandas, and NLP; optimized model accuracy; achieved AGI capabilities in full-stack context. *Skills: Python, FastAPI, RAG, PostgreSQL, Redis, GCP, Data Science, NumPy, NLP, Pandas, Reinforcement Learning, API Integration, Model Training, Cross-Functional Collaboration, Workflow Optimization*

Software Developer, Devsinc 🌐 03/2023 – 07/2024 | Full-time

- Spearheaded web app development using Django, DRF, Mako, Flask, Pyramid, FastAPI; managed AWS services like EC2, ECS, SQS, SNS, S3, DynamoDB; ensured seamless deployment, scalability, new features, and code optimizations.
- Led backend optimizations and feature implementations; integrated AWS for cloud infrastructure; achieved scalable solutions and improved application performance.
- Trained in Django for real-time projects; expanded to full-stack web development; collaborated cross-functionally to deliver innovative, efficient solutions.
- Honed skills in web apps and team collaborations; applied Django/DRF in projects; boosted project delivery and solution innovation. *Skills: Amazon Web Services (AWS), Machine Learning, Django, Django REST Framework, Mako Templates, Flask, Pyramid, FastAPI, EC2, ECS, SQS, SNS, S3, DynamoDB, Cross-Functional Collaboration, Web Development*

Remote Software Developer, textingbetty 🌐 02/2022 – 05/2023 | Contract

- Led the migration of workflows in Amazon Web Services (AWS) Lambda to manage webhook triggers, Slack notifications.
- Developed and deployed serverless functions using AWS Lambda to handle incoming webhook triggers, parse data into JSON format.

- Implemented Slack notification mechanisms within AWS Lambda functions to alert stakeholders about critical events and updates in real-time.
- Technologies used: Flask, Python, Amazon Web Services (AWS) Lambda, TitaniumDB.

Backend Software Engineer, Billionaire club LLC [🔗](#) 01/2021 – 02/2022 | Contract

- Developed APIs for news, videos, and post comments using Django and Django Rest Framework, enhancing user engagement and interaction on the platform.
- Integrated the APIs with Jinja templates to seamlessly render dynamic content on the frontend, ensuring a smooth and interactive user experience.
- Utilized PostgreSQL for efficient data storage and retrieval, maintaining data integrity and scalability of the application.
- Collaborated with the frontend team to ensure proper integration and functionality of the Jinja templates with the backend APIs, fostering effective communication and teamwork.
- Technologies used: Django, Django Rest Framework, PostgreSQL, Jinja templates.

EDUCATION

Bachelors in Computer Science, FAST - National University of Computer and Emerging Sciences [🔗](#) 2019 – 2023 | Lahore, Pakistan

- Relevant course work: Computer Programming, Data Structures, Database Systems, Design and Analysis of Algorithms, Human Computer Interaction, Artificial Intelligence, Information Retrieval, Data Science, Software Engineering, Natural Language Processing, Digital Image Processing, Organizational Behavior

PROJECTS

Nexbot, FastAPI + Next js + RAG Application [🔗](#) 04/2022 – 05/2022

- Implemented user authentication and authorization using JSON Web Tokens (JWT)
- Created dynamic forms and implemented form validation using React Hooks
- Incorporated Redux actions, reducers and middleware to manage state
- Implemented features CRUD operations.

Fund Raiser, Django + Next Js Web Application [🔗](#) 06/2022 – 07/2022

- Developed an e-commerce website using Django and ReactJS
- Implemented user authentication and authorization using built-in authentication system of Django
- Connected the application to a PostgreSQL database to store and retrieve information about products, users, and orders
- Utilized Redux for state management of the shopping cart and user login
- Incorporated a search feature that allows users to filter products by category, price, and brand

Library Management System, C++ Application

- Developed a system to manage a library's book inventory, including adding, removing, and updating book records.
- Enabled functionalities for book issue, return, and tracking overdue books.
- Applied object-oriented principles to create modular components, making it easy to extend and maintain.
- Integrated file handling for data persistence, allowing data retention between program runs.

CERTIFICATES

Google Cloud [🔗](#) | Softec'22 Deputy Head [🔗](#)