Aman Srivastava

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Experience

Software Development Engineer II, Credgenics – Noida, U.P.   April 2023 - May 2024
- Collaborated in a small team to build an in-house calling service using FastAPI, Kafka, Redis, and Asterisk in a horizontally scalable, event-driven microservices architecture.
- Developed advanced calling features such as predictive dialing, conferencing, call transfers, and merges.
- Helped design a robust system architecture and ensured it could easily support 50M+ calls monthly through scalable backend development and efficient deployment strategies.

Associate Software Engineer, Credgenics – Noida, U.P.   July 2022 - March 2023
- Re-architected core microservices to improve speed, scalability, and fault tolerance; implemented Kafka consumers with multiprocessing and graceful shutdowns to enhance system reliability and resource management.
- Built real-time user metrics dashboards for calling agents, enabling better performance tracking and operational visibility across the platform.

Backend Technology Intern, Credgenics – Noida, U.P.   January 2022 - June 2022
- Integrated external calling vendor into the platform using RESTful APIs, enabling seamless call operations within the Credgenics ecosystem; developed backend APIs for the calling vertical as part of an agile team, contributing to faster feature delivery and improved platform functionality.

Skills

Languages: Python, Java, C, Elixir, SQL, NoSQL, Bash
Frameworks: FastAPI, Django, Phoenix, Spring
Tools/Technologies: Kafka, Redis, PostgresQL, MongoDB, Docker, k8s, Git, Cursor

Projects

Bad With Dates Website   badwithdates.fly.dev
- Built a full-stack event reminder web app using Phoenix (Elixir) and PostgreSQL, designed to help users track birthdays, anniversaries, and other recurring events with integrated email notifications and responsive calendar UI.
- Implemented features like user accounts, event management, calendar view, and mobile device friendly UI, with automated yearly email reminders sent a week and a day before each event.
- Developed the project using pair programming with gpt-5, leveraging AI-assisted coding tools like Cursor to efficiently build and refine UI elements and overall functionality.

Realtime Insect Detection Mobile Application   github.com/amansrivstv/flutter-object-detection
- Developed an offline pest detection mobile app using Flutter and TensorFlow Lite, enabling real-time pest localization via smartphone cameras for IGKV's farming community, with no internet dependency.
- Trained and quantized a custom YOLO Lite model on IGKV's labeled dataset, achieving over 95% average detection accuracy with real-time on-device inference, optimized for low-end Android devices.
- Designed a clean, modular UI and integrated remedy suggestions, focusing on usability for non-technical users in rural areas and ensuring consistent performance across devices.

CSGO Stats Twitter(X) Bot   github.com/amansrivstv/csgo-twitter-bot
- Created a CS:GO match stats bot for Twitter (X) as a fun personal project, using Python, Selenium, and Tweepy to auto-tweet my in-game performance after each match.
- Deployed on Heroku for 24/7 automation and hands-free stat sharing.

Education

Dr. SPM IIIT - Naya Raipur, **CH** – B. Tech in Computer Science Engineering (**8.64** CGPA)   June 2022
DAV Public School, Kota, RJ – CBSE SSCE Class 12 (**90.7 %**)   2017
St. Joseph's School, Rihandnagar, UP – CBSE SSE Class 10 (**9.0** CGPA)   2015