AJAY KUMAR

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Experience

Cosyugma Company   **Apr 2024 – Jul 2024**
Flutter and Django Developer Intern   *Sonipat, Haryana*

- Developed mobile authentication using OTP and JWT, enhancing security across 7 auth pages.
- Refactored mobile codebase with BLoC architecture, reduced code volume by 50% and improved performance by 40%.
- Developed RESTful API endpoints using Django for authentication and core app functionalities.
- Created centralized logic structure with Flutter and BLoC, enhancing code reusability and state management.

Freelance Project   **Feb 2024 – Mar 2024**
Flutter Developer   *Sonipat, Haryana*

- Integrated Twilio services into a Flutter mobile app, enabling seamless call processing and routing.
- Implemented call handling logic to initiate Twilio calls during active phone conversations using Flutter's url-launcher package.
- Developed a solution to streamline backend call processing by leveraging Twilio's API and Flutter's capabilities.

IIC DCRUST   **Oct 2023 – Nov 2023**
React Developer   *Sonipat, Haryana*

- Collaborated with a three-person team to develop frontend of IIC 🔗.
- Contributed in team and event pages of Website to show updates of Institute Innovation Council.
- Designed color theme, structure and overall design pattern of the website.

Projects

Programming Language API 🔗 | *Rust (Actix-Web, gRPC, tonic, tokio), Sqlite*   **Jul 2024**

- Built a Rust-based API using actix-web that lets users run C, C++, and Rust code remotely. Set up simple email registration and token authentication.
- Created a Rust microservice using gRPC (tonic) for code execution, returning output and execution time to the API.
- Leveraged gRPC to connect the API and microservice, which helped cut down response times by about 30%.

Brainfuck Compiler 🔗 | *Rust, Flat Assembler*   **Jan 2024**

- Created a brainfuck interpreter and compiler in Rust as a fun side project, adding a neat feature to print the input tape.
- Connected flat assembler to compile the generated assembly code, getting hands-on experience with both Rust and assembly language compilation.
- Explored the inner workings of programming languages by experimenting with this esoteric language, learning about interpretation and compilation processes.

Antra - Music Player 🔗 | *Flutter (Provider, Hive), Figma*   **Jul 2023**

- Built Antra, a Flutter music player app that lets users enjoy their local songs and create custom playlists. Leveraged Hive for quick local storage and Provider for smooth state management.
- Crafted a sleek, Indian-inspired dark theme UI that's easy on the eyes and simple to navigate.
- Set up smart playlists that automatically sort songs by artist, genre, and movie, allowing user to make custom playlists.

Technical Skills

Programming: Dart, Rust, Solana, C, C++, Java, JavaScript, TypeScript, Python (pygame, tkinter, scikit, seaborn, matplotlib), Go, SQL, HTML/CSS, Tailwind, Turso, Sqlite
Tools and Frameworks: Django, Flask, Actix-Web, Bunjs, Elysiajs, Reactjs, Flutter, Android Studio, Git, Github
Miscellaneous: DevOps, AWS Cloud, Firebase, Github Actions, Docker, Kubernetes, Terraform, Ansible, Nginx, Figma

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Internet Technology
- Compiler Design
- Operating System
- Computer Networks
- System Design
- Low-Level Design

Education

Deenbandhu Chhotu Ram University of Science and Technology   **Dec. 2021 – May 2025**
Bachelor of Technology in Computer Science and Engineering   *Sonipat, Haryana*