

Gurshaan Singh Dult

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EDUCATION

National Institute of Technology (NIT), Jalandhar

Jalandhar, India

Bachelor of Technology in Information Technology GPA: 7.95/10.0

Aug. 2023 – May 2027

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Database Management Systems, Computer Networks, Computer System Architecture, Machine Learning

PROFESSIONAL EXPERIENCE

Full Stack Engineering Intern

June 2026 – Aug. 2026

DMFlo

Remote

- Architected a webhook-driven ingestion pipeline (Meta HMAC-SHA256 verification → account resolution → **BullMQ enqueue**) load-tested to **90+ req/s** at **0% error** with p95 latency under 3ms, decoupling inbound Instagram events from downstream automation processing.
- Engineered a Gemini-powered **RAG pipeline** for AI agent replies: multi-format document ingestion, text chunking, embedding generation, and semantic retrieval to ground on-brand responses in a merchant's knowledge base.
- Built a Google Calendar booking engine for the AI agent that issues opaque, holdable slot IDs, creates **idempotent bookings**, auto-blocks the owner's calendar, and DMs confirmation with a Meet link.
- Designed a comment→DM, story-reply→DM and branching DM automation engine (keyword triggers, node-based conversation trees with NAVIGATE/LINK actions, cooldowns) supporting **1,000+ configured automations**, backed by **BullMQ workers** for rate-limited, retry-safe message delivery.
- Built a **Model Context Protocol (MCP) server** (Streamable HTTP/SSE) exposing automation and account-management tools to AI clients (Claude, ChatGPT, Copilot), secured by a full **OAuth 2.1** auth server.

Backend Engineering Intern

Jan. 2025 – Mar. 2025

Uptut

Remote

- Designed asynchronous backend processing for **10,000+ candidate evaluations/day**, reducing evaluation turnaround time by **96%** while maintaining responsiveness under concurrent requests.
- Implemented **JWT authentication, role-based authorization, input validation, and rate limiting** across **20+ API endpoints**, hardening application security and preventing abusive requests.
- Optimized database queries and service-layer logic, reducing API latency by **34%** and improving throughput for high-frequency hiring workflows.

TECHNICAL PROJECTS

Typing Wars | [Live](#) | *Next.js, Fastify, TypeScript, WebSockets, Turborepo*

2026

- Built and deployed a real-time multiplayer typing platform supporting solo practice and synchronized race rooms using Next.js and Fastify.
- Engineered low-latency race synchronization with WebSockets, handling player state, countdowns, progress updates, and race completion events in real time.
- Structured the platform as a Turborepo monorepo with shared TypeScript contracts.

AI-Powered Resume Generator | [Live](#) | *Next.js, TypeScript, Gemini API, PostgreSQL, GitHub Actions*

2025

- Built and deployed a full-stack AI-powered resume builder using Next.js, TypeScript, PostgreSQL, and the Google Gemini API with automated CI/CD pipelines using GitHub Actions.
- Developed REST APIs and an interactive resume editor with live preview, auto-save, and dynamic template rendering.

ACHIEVEMENTS

- Solved **500+ data structures and algorithms problems** across platforms including LeetCode and Codeforces, achieving a maximum LeetCode rating of 1510.
- Ranked among the **Top 100 teams globally** in the **Google Solution Challenge** for developing Myriad.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, C, C++, Go, SQL

Frontend: React, Next.js, Redux, Tailwind CSS, React Native

Backend: Node.js, Fastify, Express, WebSockets, Kafka, BullMQ, PostgreSQL, MongoDB, Redis, Firebase

Cloud/DevOps: Docker, AWS (EC2, S3), GitHub Actions, CI/CD