ANHAD CHAWLA

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EDUCATION

McMaster University   Hamilton, ON
Bachelor of Applied Science in Computer Science (Co-op) | GPA: 3.92/4.0
- **Relevant Coursework:** Algorithms & Data Structures, Object-Oriented Programming, Database Systems, Computational Theory, Operating Systems, Software Security, Linear Algebra.

TECHNICAL SKILLS

AI & Agents: LangGraph, RAG, ElevenLabs, Gemini API, PyTorch, LLMs, NLP, n8n Automation
Languages: Python (Pandas/NumPy), JavaScript (ES6+), TypeScript, C++, SQL, Solidity, HTML/CSS
Web Frameworks: React.js, Node.js, Express.js, FastAPI, REST APIs, Playwright, Tailwind CSS
Cloud & Tools: GCP (BigTable, Cloud SQL), Azure, Docker, Git, MongoDB, Tableau, Power BI
Certifications: Microsoft Azure Fundamentals, Tableau A-Z Masterclass, SQL Masterclass, React Developer

EXPERIENCE

Google Developer Student Clubs (GDSC)   Hamilton, ON
Open Source AI Developer (InterfaceAI)   *Sept 2025 – Present*
- Architecting a **Step Creator Agent** using **LangGraph** to decompose natural language goals into executable browser trajectories, transitioning web navigation from imperative to declarative models.
- Engineering a **Memory AI Agent** with **Python** and **GCP BigTable** to store user context and preferences, enabling persistent state management for autonomous browser interactions.
- Optimizing agentic workflows using **Docker** and **Playwright** to validate high-frequency interaction loops.

Needpedia   Remote
Full-Stack Software Developer   *May 2023 – Feb 2024*
- Developed full-stack features using **Python** and **React.js**, delivering tools for internal project management.
- Leveraged **Node.js** for server-side scripting, optimizing data ingestion and secure module communication.
- Integrated AI-driven automation into workflows, reducing manual task overhead by 30%.

IGEO Consultants   Mississauga, ON
Data Analyst / UI/UX Designer   *Sep 2022 – May 2023*
- Conducted dataset manipulation using **Python**, extracting insights to guide strategic consultancy projects.
- Built interactive dashboards in **Power BI** and **Tableau** for real-time monitoring of customer trends.
- Applied statistical modeling to interpret user engagement, directly informing UX design and layout decisions.

PROJECTS

AI-MER: Autonomous Matchmaking Ecosystem | *Python, Gemini API, ElevenLabs, MongoDB*
- Architected a "Digital Twin" system where AI agents engage in autonomous speed dating; implemented voice-first onboarding to capture personality traits via **ElevenLabs** and stored metadata in **MongoDB Atlas**.
- Engineered a **Real-Time Telemetry Engine** using an **Exponential Moving Average (EMA)** algorithm to smooth sentiment volatility and calculate match probability across a weighted linear model.
- Designed a scoring system evaluating Profile Embeddings (30%) and Emotional Flow (25%) for match reports.

AI Voice Agent for Restaurants | *Python, Retell AI, n8n, Twilio, GPT-4*
- Built a production voice agent that handles phone orders and summarizes calls via **GPT-4**; integrated **Twilio SIP Trunking** and **n8n** webhooks for real-time WhatsApp/SMS order confirmations.
- Trained multi-state agents to handle dynamic menu inquiries, ensuring 95% order accuracy via agent logic.
- Developed scalable logic to filter analyzed calls and validate order success, minimizing human oversight.

Geospatial Imaging & Satellite Tracking | *Node.js, Express, Mapping APIs*
- Architected a high-throughput backend to ingest and route live satellite data, enabling real-time tracking.
- Implemented a visualization frontend using **HTML/CSS** for real-time satellite position endpoints.