

DHRUVAL ANANDKAR

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PROFESSIONAL SUMMARY

Computer Science (Honors) senior specializing in Distributed Systems, Data Management, and Cloud-Native Architectures. Proven experience across the entire software development lifecycle (SDLC), architecting scalable, fault-tolerant backend services. Seeking a Software Development Engineer role (Full-Time 2026/2027), bringing deep expertise in GenAI, query processing optimization, and a commitment to operational excellence.

EDUCATION

Bachelors in Computer Science, Honors Program Ashland University, Ashland, Ohio	Expected Fall 2026 GPA: 3.8 / 4.0
Associate in Computer Engineering Parul University, Vadodara, Gujarat, India	May 2020 – May 2023 GPA: 4.0 / 4.0

RELEVANT COURSEWORK

Data Structures & Algorithms, Principles of Operating System, Database Systems, Distributed Computing, Machine Learning, Object-Oriented Design.

PROFESSIONAL EXPERIENCE

Ashland University – Ashland, Ohio, USA Business Intelligence Intern	Oct 2025 – Present
- Architected a GenAI-powered DAX bot to automate complex query processing, significantly reducing manual coding efforts and enhancing enterprise data management productivity. - Engineered scalable data pipelines using Python to connect Snowflake with Microsoft Fabric, successfully streamlining the ingestion and processing of massive academic datasets. - Optimized backend SQL endpoints to resolve structural data anomalies, ensuring 100% data integrity and cost-effective, real-time accessibility.	
Ashland University – Ashland, Ohio, USA Research Team Lead – Data & Full-Stack Development	Oct 2024 – Present
- Led a cross-disciplinary team to build an AI-integrated IoT platform for precision agriculture, taking full ownership of the SDLC from initial design through scalable deployment. - Developed resilient RESTful APIs to integrate Python machine learning models with cloud infrastructure, achieving fault-tolerant operations and sub-second latency for end-users. - Implemented CI/CD principles and managed GitHub version control within an Agile framework, maintaining rigorous code review standards to ensure operational excellence.	
Smith Structure India Pvt. Ltd. – Kheda, Gujarat, India Development Intern – Internal Tools	Dec 2022 – Jan 2023
- Developed custom internal web applications using PHP and MySQL to automate manual workflows, innovating on behalf of internal customers to cut deployment times by 30%. - Monitored and troubleshooted backend production systems, successfully resolving 50+ complex technical issues and achieving a 98% resolution rate.	
Gujarat State Electricity Corporation Limited (GSECL) - Wanakbori, Gujarat, India Systems Development Intern	Apr 2022 – May 2022
- Built IT automation web applications writing clean, maintainable code in PHP and Java, successfully eliminating bottlenecks and saving ~10 hours of manual data entry per week. - Executed query processing optimizations on legacy MySQL database systems, reducing backend load and improving overall system responsiveness by 25%.	

COMPETENCIES

Functional Skills: Software Development Life Cycle (SDLC) • System Architecture • Object-Oriented Programming • Technical Documentation • Agile & SCRUM • Distributed Systems • CI/CD Principles • Query Processing and Optimization

Technical Skills:

- Languages:** Python, Java, JavaScript (ES6+), TypeScript, SQL (PostgreSQL, MySQL).
- Frameworks & Libraries:** React.js, Node.js, Express.js, FastAPI, MERN Stack, Redux, Tailwind CSS.
- Cloud & Databases:** AWS (EC2, S3), Microsoft Fabric, Snowflake, MongoDB, MySQL, NoSQL.
- Tools & DevOps:** Docker, Kubernetes, Git/GitHub, RESTful APIs, LangChain, CI/CD, GenAI Tools, Microservices.

TECHNICAL PROJECTS

Ashland Public Transit Platform: Engineered a **React/Node.js** fleet app via WebSockets, for fault-tolerant, high-concurrency real-time GPS tracking.
Vajra (MLOps Orchestrator): Architected a self-healing **Python/AWS** pipeline, automating drift recovery for distributed high availability.
CortexLab: Built a **Python/LangChain** multi-agent **GenAI** assistant, automating complex data synthesis to highly optimize LLM query processing.
JobGenie AI: GPT-4 job match SaaS with resume parsing, **LangChain**, and Stripe – **full-stack deployed**.
AgriScience: Implemented an end-to-end ETL pipeline using **Python, SQL, and IoT** data for crop analytics and prediction.
Vapi Outbound Campaign: Built a real-time automation tool using the Vapi API for dynamic outbound call-flow logic and automated data handling.
News Bias Aggregator: Built a **React app** that analyzes and visualizes news bias using simulated multi-source scores.

CERTIFICATES & HONORS

Voice Assistant with OpenAI & IBM Watson	CognitiveClass.ai: Oct 2024
Data Science with Python	SoloLearn: Jun 2021
UN SDG Innovation & Entrepreneurship Challenge	Ashland University: Sep 2025
Containers & Kubernetes Essentials	CognitiveClass.ai: Jun 2026