

Zain Bharde

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EDUCATION

Texas A&M University - B.S. Data Engineering & Computer Science Minor Expected May 2026
Relevant Coursework: Data Structures & Algorithms, Program Design, Computational Data Science, Database Systems, Linear Algebra

SKILLS AND CERTIFICATIONS

Technical Skills: Python, Java, HTML, CSS, SQL, Go, JavaScript, Google Cloud, Docker, Git, Jupyter, Firebase, Pandas, MS Apps
Certifications & Training: MySQL Cert, Exploring Data with Looker, ML in the Enterprise, How Google Does Machine Learning, Google Analytics, Python Object Oriented Programming, Python Data Structures and Algorithms, CS50's Python

PROFESSIONAL EXPERIENCE

Dematic Grand Rapids, MI
Software Development Engineer Intern May 2024 – Present

- Developed pallet storage logistics software to enable autonomous mobile robots to select optimal storage containers, resulting in 25% improvement in selection accuracy
- Implemented 10+ interfaces using Nocobase, enabling warehouse operators to efficiently update, insert, and delete data from device control system database

The Home Depot Atlanta, GA
Software Engineer Intern May 2025 – Jul 2025

- Improved P95 API response times by 90% and cut cloud costs by 50% by migrating core sourcing service from Java to Go
- Optimized system performance by reducing memory usage 35x and CPU consumption by 40% on average across load levels
- Delivered project 1 week early and presented final readout to 100+ associates including executives, managers, and engineers

Texas A&M University College Station, TX
Undergraduate Research Assistant Jan 2024 – May 2024

- Developed a Python script achieving 1.38% error in image distortion removal and contributed to a C++ visual odometry pipeline
- Presented DinoV2's impact on feature tracking for visual odometry at A&M Science Symposium to a non-technical audience

CLOUDSUFU Houston, TX
Data Engineering Intern Aug 2023 – Jan 2024

- Deployed Google Cloud Cortex Framework for SAP and developed Looker dashboards for intuitive data visualization
- Acquired expertise in data engineering, complemented by certifications in Google Analytics, machine learning, and Looker

PROJECTS

Great Smiles Jul 2025 - Aug 2025

- Architected AI dental agent using FastAPI, OpenAI Whisper, ElevenLabs TTS, and Twilio with LangGraph state management to automate patient calls intake through multi-agent flows
- Built React.js patient call information dashboard and leveraged Supabase to provide Google OAuth authentication and role-based access control

Personal Website Jun 2025

- Developed professional portfolio website using HTML, CSS, and JavaScript to showcase experience, projects, and resume with responsive design and optimized user experience
- Deployed website via AWS using S3, Route 53, and CloudFront to ensure scalable hosting and content delivery

Aggie AI Feb - Apr 2025

- Built Next.js platform serving 500+ active users using RAG-based AI and PostgreSQL to provide natural language course recommendations based on GPA distributions and professor reviews
- Developed Python data pipeline with automated PDF extraction and web scraping to collect and process academic data and professor reviews, integrating results into optimized PostgreSQL database schema

Explore AI Aug 2024

- Developed ExploreAI travel chatbot using Google Gemini API and Node.js to provide dynamic travel assistance and recommendations through conversational AI interface