

FAZLEMALAK CHIMTHANAWALA

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EDUCATION

The Pennsylvania State University

B.S. in Computer Science; GPA: 3.72/4.00

Minor in Math;

University Park, PA

May 2026

- Relevant Coursework: Digital Design, Object Oriented Programming (JAVA), Intermediate programming (Python), Data Structures (C++), Advanced Calculus, Discrete Math

INTERNSHIP EXPERIENCE

Infocepts

Artificial Intelligence Intern

India

June 2024 – July 2024

- Created and drove the creation of a versatile Vision-Language Model (VLM) tailored for client-specific use cases in the retail industry, resulting in a reduction of approximately 16,000 hours of manual labor, and enabling a cost savings of \$800,000.
- Conducted comprehensive research to identify and propose innovative AI-driven strategies for optimizing retail operations, facilitating the company's ability to deliver cutting-edge solutions to clients.

PROJECTS

RetailVision AI | Python developer

June 2024

- Developed and deployed "RetailVision AI," a fine-tuned integration of YOLO and ChatGPT models, tailored to enhance retail operations by leveraging advanced Vision-Language Model (VLM) capabilities.
- Created and utilized a custom dataset to fine-tune RetailVision AI, ensuring robust performance in accepting both image and video submissions for comprehensive analysis.
- Enabled client-specific use cases by ensuring RetailVision AI can monitor adherence to planogram compliance through image and video inputs, significantly improving operational compliance and efficiency.

Course Scheduling Application | Lead JAVA developer

Dec 2023

- Led the development of a Java-based Course Scheduler application for a college, encompassing over 1350 lines of code.
- Ensured adherence to Object-Oriented Design principles, incorporated a user-friendly GUI using Swing, and demonstrated proficiency in method implementation and database management.
- Implemented advanced search functionalities for courses and students, enabling efficient data retrieval.

Drawing Application | Lead JAVA developer

Oct 2023

- Developed a Java drawing application with a user-friendly GUI, offering shape selection, color options, undo/erase features, customizable stroke settings, real-time drawing, and adherence to project requirements.
- Utilized MyShapes hierarchy for versatile shape drawing with customizable gradient or solid coloring and dashed or solid lines. Implemented event handlers, rendering shapes, and met project requirements for a robust drawing app.
- Incorporated pressure-sensitive drawing capabilities for a more natural and expressive drawing experience.

SKILLS

Technical: C++, Python, JAVA, VLM, LLM, LaTeX, PaliGemma, JAX, Prompt Engineering, Machine Learning, Natural Language Processing (NLP), PyTorch

Non-Technical: Adobe Lightroom, Photography, Videography, Public Speaking, Microsoft Office

Languages: English (Professional), Hindi (Professional), Gujarati (Native)

PROFESSIONAL EXPERIENCE

Creamery Store Worker, Penn State University Park (part-time)

Aug 2023 – May 2024

Engaged in food service responsibilities, maintaining high standards of quality and customer satisfaction.

Food Service Specialist, Penn State Berks (part-time)

Oct 2022 – May 2023

Ensured a positive customer experience through effective communication.