

Dhruv Khera

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EDUCATION

Virginia Tech University

Bachelor of Science in Computer Science, Minor in Cybersecurity GPA: 3.76/4.00

Blacksburg, VA

Aug. 2024 – May 2028

Pathways School

IB Diploma Program

Noida, India

Sep. 2015 – May 2024

EXPERIENCE

Startup - PayPath

Jun 2025 – Present

Technology and Finance Startup

- Collaborated with a team to launch a company named PayPath.
- The goal of the organization is to provide clients with tools to manage their loans and debts.
- Developed an iOS app, soon to be published on the App Store. Additional platforms, including Android and desktop, are in development.

Machine Learning Intern

Jun 2025 – Aug 2025

IDS InfoTech LTD

- Utilized various machine learning algorithms and clustering tools to develop deep learning models.
- Applied techniques such as Convolutional Neural Networks (CNN), Retrieval-Augmented Generation (RAG), Random Forests, and Decision Trees.
- Enhanced proficiency in Python and Machine Learning frameworks.

PROJECTS

Full Stack iOS Application | *Swift, Xcode, Google Firebase*

Jun 2025 – Jul 2025

- Developed a loan tracker app to help users manage debt with integrated AI-generated strategies.
- Included visual tools such as graphs and charts to show payoff progress.
- Implemented features like EMI calculator, payment schedule generator, and biometric authentication.

AI Image Detector Web Application | *Python, Visual Studio Code*

Jun 2025 – Jul 2025

- Created a web application that classifies images as AI-generated or real using CNN.
- Allows users to upload an image and receive results with a confidence score.
- Runs directly in the browser with no external setup required.

Mental Health and Self Assistant ChatBot | *Python, Jupyter Notebook*

Apr 2025 - May 2025

- Built a chatbot offering mental health advice using RAG architecture, vector databases, and document ingestion.

Personal Portfolio Website | *HTML, CSS, JavaScript, Visual Studio Code*

Apr 2025 – May 2025

- Designed and built a personal portfolio showcasing projects, skills, and contact information.
- Website: <https://dhruvkhera.com>

Full Stack Desktop Application | *Java, SQL, NetBeans, phpMyAdmin, XAMPP*

Apr 2024 – May 2024

- Built a desktop application for doctors to manage patient data, vitals, and medical records.
- Features include appointment scheduler, prescription generator, BMI calculator, chatbot, and visualized patient analytics.
- All data is stored securely in a local database.

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, HTML, CSS, Swift, Objective-C, MATLAB

CAD Tools: SolidWorks, Fusion 360, AutoCAD

Developer Tools: VS Code, PyCharm, IntelliJ IDEA, Eclipse, Adobe Dreamweaver, Xcode, Jupyter, NetBeans, Unity, Sublime Text

Libraries/Frameworks: Pandas, NumPy, Matplotlib, TensorFlow, PyTorch, Keras, Streamlit