**Dhruv Hedaoo**

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**Objective**

As a dedicated Computer Science undergraduate at VIT Bhopal, I aim to leverage my strong foundation in Data Structures and Algorithms and apply my knowledge to innovative, real-world projects. I am seeking opportunities where I can grow as a software developer while contributing through my skills in full-stack technologies with a special focus on web development. I also bring hands-on experience in Android app development using Java and Kotlin

**Experience**

**Android Development Intern**  
Imarticus Learning — June 2025 to July 2025

* Developed Android applications using **Java** and **Kotlin** in Android Studio.
* Designed clean, user-friendly interfaces using **XML**, **Constraint Layout**, and **Material Design principles**.
* Integrated APIs using **Retrofit** and managed local storage with **SQLite**.
* Applied core concepts like **Activity & Fragment lifecycle**, **View Model**, and **MVVM architecture**.
* Gained exposure to real-world app debugging, version control with Git, and agile workflows.

**Software Developer (Android & Full Stack)**

* Hands-on experience building Android applications using Java and Kotlin, with focus on scalable UI, data persistence, and API integration.
* Comfortable working across the entire development lifecycle — from planning and design to coding, testing, and debugging.
* Strong foundation in Data Structures and Algorithms (PW Decode 2.0), enabling efficient problem-solving and code optimization.
* Familiar with web technologies like HTML, CSS, JavaScript, and React.js for developing interactive frontend interfaces.
* Proficient in using Git for version control and collaborating in team-based workflows.
* Eager to contribute to innovative projects and continuously learn new tools, frameworks, and practices in the evolving tech landscape.

**Technical Skills**

* **Programming Languages**: Java, Kotlin, Python, C++, JavaScript
* **Android Development**: Android Studio, XML Layouts, MVVM Architecture, Retrofit, SQLite, View Model, Live Data
* **Web Development**: HTML, CSS, JavaScript, React.js, Bootstrap
* **Data Structures & Algorithms**: Arrays, Trees, Graphs, Recursion, Sorting, searching (Completed PW Decode 2.0)
* **Tools & Platforms**: Git, GitHub, Canva, Adobe Photoshop, Microsoft Excel, PowerPoint
* **Data Science Tools (Basic Exposure)**: Pandas, NumPy, Matplotlib, TensorFlow, Scikit-learn
* **Version Control & Deployment**: Git, GitHub

**Key Contribution**

* Successfully completed a **summer internship** in Android App Development at **Imarticus Learning**, where I developed user-centric mobile applications using **Java**, **Kotlin**, and **Android Studio**.
* Implemented API communication with **Retrofit**, handled local data persistence using **SQLite**, and built adaptive UI layouts using **XML** and **Material Design** components.
* Gained proficiency in **MVVM architecture**, **Activity & Fragment lifecycle management**, and app optimization for performance and user experience.
* Completed **PW Decode 2.0** certification, gaining strong practical knowledge in **Data Structures and Algorithms**, including linked lists, trees, recursion, dynamic programming, and sorting techniques.
* Actively building personal Android projects and exploring **React.js** to develop interactive frontend experiences; learning full-stack development by integrating with backend APIs.
* Participated in the **Code2Career Aptitude Challenge**, benchmarking logical thinking, quantitative reasoning, and problem-solving under pressure.
* Collaborated with peers on debugging sessions, code walkthroughs, and shared GitHub repositories to practice real-world coding workflows.
* Utilized **Git** and **GitHub** for version control in all personal and team projects; confident in branching, pull requests, and open-source collaboration etiquette.
* Exploring **basic machine learning concepts** using tools like **TensorFlow**, **Scikit-learn**, and **NumPy**, with plans to build data-driven applications.
* Regularly attend online workshops, coding events, and developer meetups to stay updated with trends in Android, Web, and Software Engineering.

**Education**

**Bachelor of Technology (Btech) in Computer Science Core**  
VIT Bhopal University  
**Expected Graduation:** 2027

**CGPA:** 8.62 / 10

Focus Areas: Android App Development, Data Structures & Algorithms, Full-Stack Web Technologies

Relevant Coursework: OOPs, Operating Systems, DBMS, Computer Networks, DSA, Software Engineering

**Senior Secondary (Class 12th)**  
S.B. Jain International School, Nagpur  
**Year of Completion:** 2022  
**Percentage:** 68%

**Secondary School (Class 10th)**  
Neemuch, Madhya Pradesh  
**Year of Completion:** 2020  
**Percentage:** 82%

**Project details**

***Life Link – Blood Donor System***

*Tech Stack: HTML, CSS, JavaScript*  
Developed a web-based platform to connect blood donors with recipients in real-time. Included features such as donor registration, blood-type-based search, emergency request handling, and user notifications. Aimed at solving real-life access challenges during medical emergencies.

***House Price Prediction System***

*Tech Stack: Python, Scikit-learn, Pandas, NumPy, Matplotlib, HTML, CSS, JavaScript*Developed a machine learning model to predict house prices based on location, area, and other features. Integrated the model into a web application with an intuitive UI where users can input data and receive instant predictions. Used Scikit-learn for training, Matplotlib for visualization, and HTML/CSS/JS for frontend design.

***Chemical Compound Analysis using ML***

*Tech Stack: Python, XGBoost, Scikit-learn, F1-Score, Matplotlib, Kernel Gradient Boosting*Built a classification model to analyse chemical compound datasets and predict reactivity or potential risks. Utilized XGBoost for feature importance analysis, used F1-score for model evaluation, and applied kernel-based gradient boosting to improve precision. Visualized performance metrics using Matplotlib.

***Rock Paper Scissors Game (Web App)***

*Tech Stack: HTML, CSS, JavaScript*Created an interactive browser-based Rock Paper Scissors game. Implemented game logic, randomized AI moves, and dynamic score tracking. Designed a responsive UI for a smooth and engaging user experience across devices.

***KBC Quiz Model (Web Application)***

*Tech Stack: HTML, CSS, JavaScript*Designed a "Kaun Banega Crorepati"-inspired quiz app with lifelines and timer-based questions. Used JavaScript to manage logic, animations, and audio cues. The app offers an interactive way for users to test general knowledge in a gamified format.

**Professional Certifications**

* **Data Structures & Algorithms** – PW Decode 2.0  
  Completed intensive training on core DSA topics including arrays, trees, graphs, recursion, and sorting.
* **Android App Development Internship** – Imarticus Learning  
  Hands-on experience with Java, Kotlin, Retrofit, SQLite, and XML in real-world Android projects
* **Bits and Bytes of Computer Networking** – Coursera (Google)  
  Gained understanding of networking fundamentals including DNS, IP addressing, and OSI model layers.
* **Java Programming** – Vityarthi  
  Covered Java fundamentals, object-oriented concepts, exception handling, and basic GUI applications.
* **Python Programming** – Vityarthi  
  Learned Python syntax, data types, control structures, file handling, and basic libraries.
* **Artificial Intelligence & Machine Learning (AI/ML)** – Vityarthi  
  Introduction to AI/ML concepts including supervised vs. unsupervised learning, model building, and evaluation.
* **Web Development** – Udemy  
  Built responsive websites using HTML, CSS, JavaScript, and Bootstrap. Covered frontend development best practices and project deployment.
* **Aptitude Challenge Certificate** – Code2Career by Lets Code Community  
  Participated in national-level aptitude testing, benchmarking problem-solving and logical reasoning.

**Achievements & Participation**

* Participated in over **20+ competitions** on **Unstop**, including case challenges, coding contests, and ideathons — showcasing consistency, initiative, and a strong learning mindset.
* Participated in **SRIJN**, the flagship innovation and entrepreneurship festival organized by **RGPV Bhopal**, demonstrating creative thinking and problem-solving in a competitive environment.

**Personal Profile**

* Computer Science undergraduate (Btech, VIT Bhopal) with a strong interest in Android development, web technologies, and machine learning
* Consistently motivated and goal-oriented with a strong sense of discipline and self-confidence
* Quick learner who adapts rapidly to new tools, technologies, and coding environments
* Known for a smart working approach and problem-solving mindset in both individual and team-based projects
* Actively involved in tech events, hackathons, and online competitions on platforms like Unstop
* Strong communication skills and a passion for continuous learning and innovation in the tech space

**Strengths**

* Positive mindset with strong self-discipline
* Smart working approach to solve problems efficiently
* Quick learner with adaptability to new tools and technologies
* Confident communicator and proactive team contributor