

Vedant Patil

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EDUCATION

Drexel University

Bachelor of Science in Computer Science, Bachelor of Art in Mathematics

Completed Relevant Coursework: Introduction to Computer Science, Data Structures and Algorithms, Calculus 1, 2 & 3, Linear Algebra, Statistics, Discrete Math

Philadelphia, PA

Aug. 2023 – June 2028

EXPERIENCE

Full Stack Developer

Company

June 2024 – August. 2024

Plainsboro, NJ

- Designed and developed an full-stack web application for a local business which increased revenue by **20%**
- Created a frontend for the application with **HTML**, **CSS**, and **JavaScript** using the **React** framework
- Configured backend services with **Node.js** and **Express**, and integrated **MongoDB** for data management and storage, achieving efficient data retrieval and scalability

Receptionist

Fantastic Sams

June 2020 – Sep. 2021

Somerset, NJ

- Managed front desk operations, including greeting clients, answering phone calls, and scheduling appointments
- Handled cash transactions, processed payments, and maintained records of daily sales and inventory

Math Tutor

STEMNauts

Sep. 2019 – February 2020

Trenton, NJ

- Provided personalized math instruction to elementary and middle school students
- Monitored student progress and adapted teaching methods accordingly to ensure continuous improvement

PROJECTS

Soccer Analyst | *Python, Yolo, OpenCV*

- Developed an AI-driven soccer analysis website capable of processing an uploaded to detect and track players, referees, and balls, leveraging data to assign team colors and assess player dynamics
- Implemented features for analysis of game momentum and team performance
- Enhanced the tool to generate sophisticated team and individual statistics, providing deep insights into game patterns and player contributions

Surge | *Swift, SwiftUI, PyTorch, Firebase*

- Leveraged machine learning to personalize patient education and identify potential complications
- Designed a interface with medication reminders, educational resources, and secure communication channels
- Will increase physician efficiency by reducing unnecessary patient contacts

Pins | *Flutter, Dart, Python, BeautifulSoup, Requests, Firebase*

- Created an app which users to interact and meet new people for various activities
- Leveraged BeautifulSoup and Requests module to extract pitch availability from external websites
- Integrated a database system with Firebase to store user preferences and account authentication

Chess Game Implementation | *Java, Java Swing*

- Implemented core chess game mechanics such as piece movement, capturing, pawn promotion, and castling with a interactive GUI providing visual feedback on moves and captures
- Integrated an AI player using the minimax algorithm with alpha-beta pruning for move generation and evaluation

TECHNICAL SKILLS

Languages: Python, Java, Dart, JavaScript, HTML/CSS

Frameworks: PyTorch, Flutter, SwiftUI, React, Firebase, Flask

Developer Tools: Git, Docker, Visual Studio Code, PyCharm, IntelliJ, Eclipse, Figma

Libraries: NumPy, Matplotlib, pandas, BeautifulSoup, Requests