Vedant Patel

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EDUCATION

University of Wisconsin-Madison   **Expected May, 2027**
Bachelor of Science in Computer Science, Bachelor of Science in Data Science   *Madison, WI*
- 4.00/4.00 GPA
- Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Linear Algebra

EXPERIENCE

Software Developer|*React, Vite, Tailwind CSS, TypeScript, Express, Git*   **Sep 2024 – Present**
Data Science For Sustainable Development   *Madison, WI*
- Worked with the Local Energy Alliance Program, a Virginian non-profit organization to develop an interactive platform to help Virginia residents determine eligibility for energy-saving programs.
- Integrated eligibility criteria and energy program data into the platform, enhancing efficiency in connecting residents to appropriate resources and improving LEAP's resource allocation.
- Built the entire solution from scratch in a team of 6 developers, leveraging React for the front-end and Express for the back-end.

Lead Teacher (Grades 7-8), Web Dev|*Java, Arduino, AI, Cloud Computing, Machine Learning* **Aug 2022 – May 2024**
CompSci Kids   *Hoffman Estates, IL*
- Created and taught 32 sessions relating to core computer science topics in classes of 30+ students.
- Managed a team of 10+ instructors to provide students with the most enhanced learning possible.
- Exposed brand-new concepts relating to robotics, data analysis, and machine learning to young coders.
- Member of a web consulting team that fine-tuned and monitored the CompSci Kids website.

Lead Instructor|*Teamwork, Communication, Critical Thinking, Leadership, Problem-solving* **Mar 2023 – Mar 2024**
Mathnasium   *Schaumburg, IL*
- Provided mathematics instruction to K-12 students, guiding them through fundamental concepts.
- Created personalized learning plans based on each child's needs and knowledge level.
- Interacted with 300+ kids, using specific forms of instruction to accommodate each individual's needs.

PROJECTS

WebScrapers | *React, Vite, Firebase, Tailwind CSS*   **May 2023 – Present**
- Created a web development business specializing in React to create platforms for local businesses in Schaumburg.
- Partnered with a local non-profit, providing consulting to enhance their website and increase their national presence, receiving 50+ volunteer hours in the process.
- Recruited junior developers to work alongside us, building their skills in web development.
- Currently dedicated to connecting with new clients and building the development team.

Task Manager App | *Swift, Firebase*   **May 2024 – Present**
- Developing collaborative productivity mobile apps aimed to streamline group coordination.
- User data collected and saved through a Firebase database system, enabling direct data transfer between users.
- Enhanced app to allow for user-user interaction, improving the UX to align with the app's social goal.

Optical Text Summarizer | *Python, NumPy, OpenCV, Transformers, Pytesseract*   **Mar 2024 – May 2024**
- Programmed autonomous system to capture raw Raspberry Pi images and summarize extracted text data.
- Used OpenCV image processing to clean image data, optimizing the efficiency of text collection.
  - Color manipulation, edge detection, contour tracing, homography.
- Performed natural language processing by utilizing a summarization pipeline on extracted text.

SKILLS & INTERESTS

- **Programming Languages:** CSS, HTML, Java, JavaScript, Python, Swift
- **Frameworks/Libraries:** Node.js, React, React Native, Tailwind-UI, pandas, BeautifulSoup, Tkinter, NumPy, OpenCV, Transformers, Pytesseract, Matplotlib, OpenAI API, Express
- **Developer Tools:** VS Code, PyCharm, IntelliJ, Eclipse, Xcode, Git, Vite, Android Studio, Firebase
- **Interests:** Soccer, Motorsport, Personal fitness, Mentoring