Ameya Panchal

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Profile

I want to pursue Artificial Intelligence through Computer Science, learning more through research opportunities and gaining experience through internships. I understand that my roadmap entails advanced programming and math concepts, and am excited to be working through these problems throughout my projects, jobs, and internships.

Education

Mystic Valley Regional Charter School   Malden, MA
Elementary, Middle, and High School   *Aug. 2020 – May 2022*

Cumberland Valley High School   Mechanicsburg, PA
High School   *Aug. 2022 – May 2024*

Pennsylvania State University   Mechanicsburg, PA
Bachelor's in Computer Science   *Aug. 2024 – May 2028*

Experience

Software Engineering Intern   May 2021 – June 2021
Recrsiv LLC.   *Malden, MA*

- Developed interactive user interfaces using React.js
- Built server-side applications with Node.js
- Designed and implemented RESTful APIs for data exchange
- Integrated and worked with MongoDB for database management
- **Key Projects**
    - Created Marketing App using linkedIn API, for Employers to search for potential employees

Independent Software Engineer   Aug. 2021 – May 2022
Freelancing   *Malden, MA*

- Developed websites according to clients using HTML, JavaScript, and CSS
- **Key Projects**
    - Created blog website to display client's knowledge of human geography with maps

Projects

Job Search Website | *HTML, JavaScript, CSS, Supabase API, ChatGPT API, Git, React, Node.js*   Oct 2023 – Present
- Developed a website to search among 200+ jobs for a fictional company
- Utilized AI in recommending jobs, help keep track of job applications, chat bot to help navigate website and troubleshoot
- Created for FBLA Website Coding and Development Competitive event, won 1st place in State Leadership Conference

Maternal Health Risks AI Model | *Python, pandas, scikit learn, tensorflow*   May 2022 – August 2023
- Identified factors impacting Maternal Health (eg. Systolic/Diastolic BP, age, etc.) using machine learning
- Utilized dataset of 1000+ rows from different hospitals, community clinics, maternal health cares through the IoT based risk monitoring system.

Loan Approvals AI Model | *Python, pandas, scikit learn, tensorflow*   May 2022 – August 2023
- Identified factors impacting likelihood of acceptance/rejection of a loan (eg. credit score, bank balance, debt, etc.)
- Utilized dataset of 600+ rows sourced from Kaggle.com

School/Community Activities

Future Business Leaders Of America — *Member*   August 2023 - May 2024
- Participated In Website Coding And Development Event
- Received first place during State Leadership Conference, currently working towards Nationals

Engineering Club — *Member*   August 2022 - May 2023
- Participated In Various Group Activities Related To Learning About The Various Engineering Fields Such As Aerospace, Bioengineering, Automotive, Etc…

Varsity Tennis — *Top Doubles*   January 2021 - May 2022
- Played Competitive Tennis With Schools Of Regional Proximity
- 2nd Place In End Of Year Double Tournament

Elementary After-School Chaperone   August 2020 - May 2021
- Looked After Kids Who Stayed After-School
- Worked With Other Leaders To Support Kids With Homework And Played Games
- Involved Leadership Skills And Teamwork

Tennis Coach   August 2021 - January 2022
- Helped Head Coach Conduct Practice With Tennis Students
- Involved Leadership With Students

Technical Skills

Languages: Java, Python, C++, SQL (Postgres), JavaScript, HTML/CSS,
Frameworks: React, Node.js, Flask, WordPress
Developer Tools: Git, VS Code, Visual Studio
Libraries: pandas, NumPy, Matplotlib
Math: Algebra, Trigonometry, Geometry, Calculus