Vraj Rajpura

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EDUCATION

Masters of Science - Information Management, *University of Washington*　　09.2024 – 05.2026
Agile Project Management, Data Science, Machine Learning, Product Management, Software Eng.　　Seattle, USA

Bachelor of Technology - Computer Science and Engineering, CGPA : 8.84/10,　　12.2020 – 05.2024
National Institute of Technology, Surat (SVNIT)　　Surat, India
Data Structures, Algorithms, Databases Management, Object Oriented Programming/Design,Operating Systems, Computer Networking, Artifical Intelligence, Web Dev.

SKILLS

Programming Languages and Development: — C,C#,C++,Python,Java, HTML5, CSS, JavaScript, Flask, .NET, API Designing.

Database Management & OSs: — MySQL, Oracle SQL, MongoDB(beginner),SQLite, RDBMS,UNIX, Linux, Windows, MacOS.

Technical Skills: — Strong CS and data fundamentals, critical thinking, problem-solving, full stack development, Object-Oriented Design, microservices, User Experience, Natural Language Processing, Debugging, Application Optimization, Software development, frontend, backend.

Additional: — Figma, WordPress, Git and Github, Office-365, Jira, Bitbucket, Sourcetree, CI/CD, Deployment.

WORK EXPERIENCE

Musafir.com, *Software Developer Intern* ☐　　02.2024 – 06.2024
- Implemented client-specific requirements using **C#** and **.NET - MVC** architecture to enable better　　Dubai, UAE
expense tracking clients thus achieving 100% customer satisfaction from customer feedback.
- Crafted complex **automation** in flight reports, enabling 1500+ clients to have detailed view of their trips and keep track of their carbon emissions and deployed to production.

Extrius group, *Software Developer* ☐　　01.2024 – 02.2024
- Developed **API routes** using **Flask (python)** for the computation of customer rankings for a shopping　　Al Sharjah, UAE
app by enhancing requests and achieving response times under 50ms.
- Engineered the front-end **(HTML)**, back-end **(JS/Flask)** and database design **(SQLite)** for a healthcare automation enabling insurance companies to fetch user data from clinics through a secure channel.

Emma Coach, *Developer and co-founder*　　01.2024 – 03.2024
- Conceptualised an AI therapist completely on WhatsApp using **OpenAI's assistants LLM API**, **Replit**　　Dubai, UAE
hosting, Flask and a multi-threaded architecture to enable 100+ simultaneous conversations and response times under 1.5 seconds.
- Launched product, collected customer feedback from 50+ customers to refine the user experience and implemented user requested features, to polish the product.

Barclays, *Software Intern (Business Analyst Level-4)* ☐　　05.2023 – 07.2023
- Automated a critical component within the Markets Technology division and financial systems using　　Pune, India
Java & Maven, and **basic Kafka**, saving 7 hours of the team weekly.
- Utilized agile **scrum SDLC** methodologies to build software components for proprietary systems using tools such as Jira, Office 365 and other software project management tools.

RESEARCH AND PROJECTS

Bitcoin price relationship to public sentiment, *Quantitative research* ☐　　06.2024 – 06.2024
- Analyzed Bitcoin price and public sentiment data over the past 365 days using quantitative finance techniques to extract the correlation.
- Performed sentiment analysis on all bitcoin related data to assign, positive, negative an neutral sentiment to comments.

Hierarchical thoracic disease detection, *Bachelor's Final Year Project* ☐　　09.2023 – 12.2023
- Introduced a novel approach utilizing clinical taxonomies to accurately predict 14 lung diseases
- Developed three CNN-based classification models (CheXnet, reset and DenseNet) for chest Xrays at three levels and integrated them into a cohesive pipeline to give doctors a more detailed explanation for disease prediction.

A Statistical Approach to Identify Biased Comments in Online, *Research Assistantship*　　03.2023 – 07.2023
- Assisted in data scraping and collection to train a Naive-Bayes classifier to identify discrimination against protected attributes online

- Researched about ML fairness, safety and responsibility, while building, deploying and using Advanced AI systems.

Websites protoypes using Figma, *Low and High fidelity prototypes* ↗   05.2021 – 12.2023
- Rendered prototypes for many client-based/ individual projects to test the website's UI/UX.