

Vraj Rajpura

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EDUCATION

University of Washington , Masters of Science in Information Management Agile Project Management, Data Modelling, Validation, Processing.	09.2024 – 05.2026 Seattle, USA
National Institute of Technology, Surat (SVNIT) , Bachelor of Technology – Computer Science and Engineering, CGPA : 8.89 Data Structures, Algorithms, Databases Management, Object Oriented Design, Operating Systems.	12.2020 – 05.2024 Surat, India

SKILLS

Programming Languages and Development: – C, C#, C++, Java, Python, HTML5, CSS, JS, Flask, .NET, API Designing.
Database Management: – MySQL, Oracle SQL, MongoDB(beginner), SQLite.
Technical Skills: – Debugging, critical thinking, analytical, problem-solving, Client-Server Architecture, Detail Oriented.
Additional: – Figma, WordPress, Adobe Premiere Pro and AE, Office-365, Jira, Bitbucket, Sourcetree

WORK EXPERIENCE

Musafir.com , Software Developer Intern ✉ • Implemented client-specific requirements using .NET in a MVC architecture to enable better 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.	02.2024 – 06.2024 Dubai, UAE
Extrius group , Software Developer ✉ • Developed API routes using Flask for the computation of customer rankings for a shopping 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.	01.2024 – 02.2024 Al Sharjah, UAE
Emma Coach , Developer and co-founder • Conceptualised an AI therapist completely on WhatsApp using OpenAI's assistants API, Replit 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.	01.2024 – 03.2024 Dubai, UAE
Barclays , Software Intern (Business Analyst Level-4) ✉ • Automated a critical component within the TTRT financial systems using Java, Maven, and 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.	05.2023 – 07.2023 Pune, India

PROJECTS

Bitcoin price relationship to public sentiment ✉ • 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 and neutral sentiment to comments	06.2024 – 06.2024
Hierarchical Lung disease detection ✉ • Introduced a novel approach utilizing clinical taxonomies to accurately predict 14 lung diseases • Developed three CNN-based classification models (CheXnet, resnet 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.	09.2023 – 12.2024
Healthcare project • Tailored a healthcare project that allows insurance providers to directly fetch data from clinics and approve/reject them based on priority of cases. • Built in security measures like username, passwords and security keys in the API to prevent unauthorised access.	01.2024 – 02.2024
Alivean , Object detection model with Machine learning • Worked on a product which uses computer vision and helps visually impaired individuals identify various objects and relay the information through earphones.	07.2020 – Present