Vraj Rajpura

✉ vrajrajpura.careers@gmail.com 📞 +971553153147 📍 Seattle in Linkedin �ن Vraj1234 🔗 Portfolio

EDUCATION

University of Washington, *Masters of Science in Information Management (BI and Poduct Mgmt.)* 09.2024 – 05.2026
Agile Project Management, Data Modelling, Validation, Processing, Product Management. Seattle, USA

National Institute of Technology, Surat (SVNIT), 12.2020 – 05.2024
Bachelor of Technology - Computer Science and Engineering, CGPA : 8.89 Surat, India
Data Structures, Algorithms, Databases Management, Object Oriented Design,Operating Systems.

Our Own English High School, Boys Branch, Sharjah, 08.2019 – 05.2020
All India Senior School Certificate Examination, CBSE, Grade 12: 95.6% Al Sharjah, UAE

SKILLS

Programming Languages and Development: — Python,C,C#,C++,Java, 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* ⧉ 02.2024 – 06.2024
- Implemented client-specific requirements using .NET in a 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.

Extrius group, *Software Developer* ⧉ 01.2024 – 02.2024
- Developed API routes using Flask for the computation of customer rankings for a shopping app by Al Sharjah, UAE
  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 TTRT financial systems using Java, Maven, and Kafka, Pune, India
  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.

SVNIT, Surat, *Training and Placements co-ordinator* ⧉ 09.2023 – 05.2024
- Analysing student data and job placement statistics for a targeted approach to new recruiters. Surat, India
- Connected 130 students with recruiters from top MNCs such as Wells Fargo, Visa, Mastercard, etc...

Google Developer Students Clubs, *Community Manager* 09.2022 – 04.2023
- Managed a core team of 20 batchmates and 150 juniors to host India's first-ever Shark Tank- Surat, India
  themed hackathon.
- Supervised teams to build agile software-based products for ten organizations on a contract basis.

TWC, *Web Developer and Content Operation Executive* ⧉ 03.2021 – 07.2022
- Designed the website on WordPress, including APIs to automate emails for ticketing of events for Surat, India
  over 100 participants while hosting multiple events.

Apli, *Digital Marketing Intern* ⧉ 12.2021 – 08.2022
- In charge of handling the Instagram handle ⧉ for Apli and generating traffic on the website and Bengaluru, India
  testing the website for various bugs.

RESEARCH 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 – 12.2024
- 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.

MBTI Personality Prediction using twitter, *Seminar Project* ⬚   09.2022 – 09.2022
- Built a personality predictor on the basis of the Myers Briggs Test Indicator with references from currently existing personality predictors using ML.

Rankings API ⬚   01.2024 – 01.2024
- Constructed an API endpoint and stress-tested its ability and performance to fetch data from 100,000 rows across multiple tables.
- Implemented advanced logic to compute rankings for a user providing a dynamic analytics webpage for the shopping app.

Healthcare project   01.2024 – 02.2024
- 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.

SWITZ, *Frontend for a website to sell Luxury Watches* ⬚   11.2021 – 12.2021
- Using HTML/CSS/JS, designed and developed 15+ pages.

Vertex   05.2022 – 06.2022
- Proposition for a system-wide change to bring together banks, partner companies, and students to make a robust system that benefits all three entities in terms of student loans and debt.

SOAP-(Son of a peach), *Profanity filter to replace swear words* ⬚   12.2021 – 12.2021
- Engineered a tool to replace curse words with funnier, similar-sounding words with a 90% accuracy while securing a spot in the top 50 teams in Dotslash 5.0 ⬚ .

Future of Shopping in the Metaverse, *Interactive collaborative space on hubs by mozilla* ⬚   08.2022 – 08.2022
- Fabricated a scene for collaborative 3D space to create a shopping experience in the metaverse using hubs by mozilla.

Music Library Database Analyst ⬚   04.2022 – 05.2022
- Led a team of 5 members to work on a music library to help suggest songs according to music genre and ratings, that are personalized to users.

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.

Rating and Review system for E-Commerce Website, *Northern Trust Hackathon* ⬚   10.2022 – 10.2022
- Devised and implemented a comprehensive Ratings and Review System using HTML, CSS, JavaScript, MongoDB, Express, and Node.js.

Alivean, *Object detection model*   07.2020 – Present
- Worked on a product which uses computer vision and helps visually impaired individuals identify various objects and relay the information through earphones.

AWARDS

Gold Medalist - Python Programming @Artificial Intelligence and Robotics conference, *Ministry of Education, UAE* ⬚

Winner Global Innovation Challenge, *Gems Education* ⬚
Presented Alivean at Singularity University's Global Summit 2019 in San Franciso, California.

Winner of SHOW N' TECH 2019, *The Assembly and in5* ⬚
Provided an elaborate solution for visually impaired people, to help ease their lifestyle using AI and ML.

EXTRA- CURRICULAR

Enthusiastic Film-maker
Directed and edited a movie, shortlisted for the Sharjah National Film Festival, based on depression, the cause of suicides and their prevention.

Video Editing head @Renesa [The Official Media and Publication House, SVNIT]
Manage a team of 5-10 video editors and designers to produce high-quality videos about the university and the Media house.

Graphic Designing and 3d Modelling
Multiple clubs in SVNIT