

# Vraj Rajpura

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## EDUCATION

<b>Masters of Science - Information Management</b> , University of Washington Agile Project Management, Data Science, Machine Learning, Product Management, Software Eng.	09.2024 – 05.2026 Seattle, USA
<b>Masters of Science in Information Management</b> , University of Washington, Seattle Business Intelligence, Data Analyst, Product and Program, Agile Scrum, Data Science.	09.2024 – 05.2026 Seattle, USA
<b>Bachelor of Technology - Computer Science and Engineering</b> , CGPA : 8.84/10, National Institute of Technology, Surat (SVNIT) Data Structures, Algorithms, Databases Management, Object Oriented Programming/Design, Operating Systems, Computer Networking, Artificial Intelligence, Web Dev.	12.2020 – 05.2024 Surat, India
<b>All India Senior School Certificate Examination, CBSE, Grade 12: 95.6%,</b> Our Own English High School, Boys Branch, Sharjah	08.2019 – 05.2020 Al Sharjah, UAE

## 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

<b>Musafir.com</b> , Software Developer Intern  <ul style="list-style-type: none"><li>Implemented client-specific requirements using <b>C#</b> and <b>.NET - MVC</b> architecture to enable better expense tracking clients thus achieving 100% customer satisfaction from customer feedback.</li><li>Crafted complex <b>automation</b> in flight reports, enabling 1500+ clients to have detailed view of their trips and keep track of their carbon emissions and deployed to production.</li></ul>	02.2024 – 06.2024 Dubai, UAE
<b>Extrius group</b> , Software Developer  <ul style="list-style-type: none"><li>Developed <b>API routes</b> using <b>Flask (python)</b> for the computation of customer rankings for a shopping app by enhancing requests and achieving response times under 50ms.</li><li>Engineered the front-end (<b>HTML</b>), back-end (<b>JS/Flask</b>) and database design (<b>SQLite</b>) for a healthcare automation enabling insurance companies to fetch user data from clinics through a secure channel.</li></ul>	01.2024 – 02.2024 Al Sharjah, UAE
<b>Emma Coach</b> , Developer and co-founder <ul style="list-style-type: none"><li>Conceptualised an AI therapist completely on WhatsApp using <b>OpenAI's assistants LLM API</b>, <b>Replit hosting</b>, Flask and a multi-threaded architecture to enable 100+ simultaneous conversations and response times under 1.5 seconds.</li><li>Launched product, collected customer feedback from 50+ customers to refine the user experience and implemented user requested features, to polish the product.</li></ul>	01.2024 – 03.2024 Dubai, UAE
<b>Barclays</b> , Software Intern (Business Analyst Level-4)  <ul style="list-style-type: none"><li>Automated a critical component within the Markets Technology division and financial systems using <b>Java &amp; Maven</b>, and <b>basic Kafka</b>, saving 7 hours of the team weekly.</li><li>Utilized agile <b>scrum SDLC</b> methodologies to build software components for proprietary systems using tools such as Jira, Office 365 and other software project management tools.</li></ul>	05.2023 – 07.2023 Pune, India
<b>SVNIT, Surat</b> , Training and Placements co-ordinator  <ul style="list-style-type: none"><li>Analysing student data and job placement statistics for a targeted approach to new recruiters.</li><li>Connected 130 students with recruiters from top MNCs such as Wells Fargo, Visa, Mastercard, etc...</li></ul>	09.2023 – 05.2024 Surat, India
<b>Google Developer Students Clubs</b> , Community Manager <ul style="list-style-type: none"><li>Managed a core team of 20 batchmates and 150 juniors to host India's first-ever Shark Tank-themed hackathon.</li><li>Supervised teams to build agile software-based products for ten organizations on a contract basis.</li></ul>	09.2022 – 04.2023 Surat, India
<b>TWC</b> , Web Developer and Content Operation Executive  <ul style="list-style-type: none"><li>Designed the website on WordPress, including APIs to automate emails for ticketing of events for over 100 participants while hosting multiple events.</li></ul>	03.2021 – 07.2022 Surat, India

**Apli**, *Digital Marketing Intern* ☑

- In charge of handling the Instagram handle ☑ for Apli and generating traffic on the website and testing the website for various bugs.

12.2021 – 08.2022  
Bengaluru, India

## RESEARCH AND PROJECTS

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**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 and 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, 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.

**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.

**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 prototypes 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 Tensorflow to help the visually impaired individuals identify various objects and relay the information through earphones.

**Fintech**

03.2021 – 05.2021

- Planned for a finance app, to manage finances, specifically for those who lack financial education or do not have the time to manage their finances.

- Conducted an in-depth analysis of how GPT-4o would react to 1000 prompts with varying gender & racial attributes using python & the OpenAI API.
- Designed & executed experiment followed by analysing data to make inferences.

**Suppl-AI**, *Exploring how AI is revolutionizing the Supply Chain & Logistics Industry*

- Conducted an extensive study & led a team of five students in exploring the technological boom in the Supply Chain industry due to the rise of AI.


## AWARDS

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**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 Francisco, 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

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**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

**Avid drummer**