




Vraj Rajpura

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EDUCATION

Master of Science - Information Management , University of Washington Software Engineering, Project Management, Data Science, Machine Learning, Product Management.	09.2024 – 05.2026 Seattle, USA
Bachelor of Technology - Computer Science and Engineering , GPA : 8.84/10, National Institute of Technology, Surat Data Structures & Algorithms, Databases Management, Object-Oriented Programming/Design, Operating Systems, Computer Networking, Artificial Intelligence, Web Development.	12.2020 – 05.2024 Surat, India

WORK EXPERIENCE

Musafir.com , Software Developer Intern  • Enhanced expense tracking for clients & reduced processing times by 15% as a result of implementing client-specific requirements using C# and .NET - MVC architecture . • Enabled 1500+ clients to monitor their trips and carbon emissions by automating a highly manual & repetitive report-generation process .	02.2024 – 06.2024 Dubai, UAE
Extrius group , Software Developer  • Developed API routes using Flask (Python) for the computation of customer rankings for a shopping app by enhancing requests and achieving response times under 50ms. • Developed a secure, priority-based dashboard for retrieving health data from clinics for an insurance company using HTML (front-end), Flask (back-end), and SQLite (database design).	01.2024 – 02.2024 Al Sharjah, UAE
Emma Coach , Developer and co-founder • Conceptualized 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. • Acquired 50+ customers across three countries through a free trial, analyzed user behavior, and implemented user-requested features to enhance the product experience.	01.2024 – 03.2024 Dubai, UAE
Barclays , Software Intern (Business Analyst Level-4)  • Automated a critical component in the Markets Technology division and financial systems using 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.	05.2023 – 07.2023 Pune, India

RESEARCH AND PROJECTS

Key Approval Software , University of Washington, HFS • Automated the key tracking process for 50+ stakeholders, reducing administrative overhead by 30% by developing a fullstack WebApp using Google Apps Script , JavaScript , and HTML. • Deployed a production-ready key request system, by streamlining approvals, issuances, and returns reducing error rates by almost 70%.	11.2024 – 02.2025
Bitcoin price relationship to public sentiment , Quantitative research  • Analyzed Bitcoin price and public sentiment data over the past 365 days using quantitative finance techniques to calculate correlation. • Performed sentiment analysis on all Bitcoin-related data to assign, positive, negative, and neutral sentiment to comments.	06.2024 – 06.2024
Gender/Racial Bias detection in LLMs for Real-estate , Final project - Ethics in AI • Conducted an in-depth analysis of how GPT-4o responded to 1000 prompts with varying gender & racial attributes using python & the OpenAI API. • Designed & executed experiment followed by analyzing data to make inferences.	09.2024 – 12.2024
A Statistical Approach to Identifying Biased Comments Online , Research Assistantship • Assisted in data scraping and collection to train a Naive-Bayes classifier to identify discrimination against protected attributes online • Researched ML fairness & safety while building & deploying advanced AI systems.	03.2023 – 07.2023

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, Testing, Natural Language Processing, Debugging, JSON, REST API, Software development, frontend, backend, Database querying, Cloud computing, Postman, GenAI chatbots & prompt engineering.
Additional: – Figma, WordPress, Git and Github, Office-365, Jira, Bitbucket, SourceTree, CI/CD, Deployment.