Jereshan Sinan

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EDUCATION

CurroThatchfield High School   Jan 2017 - Dec 2021
• National Senior Certificate

Varsity College Waterfall

- BSc in Computer and Information Science   Feb 2022 - Dec 2024
- BSC (Honours) in Computer and Information Science   Feb 2025 - Dec 2025

WORK EXPERIENCE

CAPACITI | AI & ML Solutions Engineer Candidate   Oct 2025- Present

- Current Role: Engaging in a program focused on developing production-ready AI solutions and implementing full-stack solutions.

Project 1: CAPACITI Hub: Intelligent Talent Platform   Dec 2025- Dec 2025

- Designed and developed an end-to-end Employee Self-Service (ESS) platform, integrating a 3-API AI suite to automate compliance and talent management.
- Integrated a RAG Chatbot for querying internal policy documents and utilized Gemini API for instant certification verification.
- Developed predictive analytics logic to calculate candidate "Risk Scores" and "Progress Status" for management dashboards, enhancing talent visibility.

Project 2: SentiCoreX: Real-Time Sentiment Analysis App   Nov 2025 - Nov 2025

- Developed a real-time, fine-tuned sentiment analysis application capable of classifying complex text inputs into specific emotional categories and providing visual analytics and confidence scores.
- Utilized advanced LLM classification techniques to move beyond basic positive/negative tagging, achieving high-accuracy detection necessary for critical business feedback loops.

Project 3: PentaHire: Bias Analysis and Mitigation   Nov 2025 - Nov 2025

- Led a team to develop a CRM application, overseeing the entire development lifecycle from design to deployment using Android Studio, Firebase, and Supabase.
- Managed key features such as task, opportunity, product management, and customer interaction tracking and REST APIs for seamless integration across services.
- Utilized Agile practices and DevOps tools like SonarQube, Snyk, CircleCI, and Jira to implement CI/CD pipelines, ensuring frequent iteration, automated testing, and faster releases with high code quality and security.

Project 4: Bias Analysis in Recruitment Datasets   Oct 2025 - Oct 2025

- Performed a detailed fairness and bias analysis on a simulated hiring dataset.
- Utilized Python and Google Colab to implement quantitative fairness metrics (e.g., Disparate Impact Ratio) to identify gender and racial disparities, followed by mitigation algorithms to reduce demographic bias and establish an ethical framework.

Project 5: AI Mentor (Conversational Learning Agent)   Oct 2025 - Oct 2025

- Designed a personalized, domain-specific conversational agent to provide tutoring and technical guidance for AI concepts.
- Configured the LLM with a detailed System Prompt and RAG structure, enabling it to act as a specialized expert, providing code examples, debugging assistance, and conceptual clarity on complex topics.

Freelance Software Developer   Aug 2024 - Present

- Led full-stack application development (React/Next.js, Android Studio) including architecture, deployment (Vercel, Firebase), and REST API design.
- Managed data persistence layers using SQL (Supabase, MySQL, SQL Server) and NoSQL (Firebase, MongoDB), ensuring transactional integrity via proficient CRUD operations.
- Applied DevOps tools (SonarQube, Snyk) and Agile methodologies to ensure secure, high-quality, continuous delivery across all freelance projects.

ADDITIONAL EXPERIENCE AND AWARDS

- Microsoft Technology Associate (MTA) **- Microsoft**   2020
- Oracle Cloud Infrastructure Certified Generative AI Professional **– Oracle**   2025
- AWS Community Builder Certificate **– DevTown**   2023
- Oracle Cloud Infrastructure Certified Data Science Professional - **Oracle**   2025
- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate - **Oracle**   2025
- Certificate in Full Stack Development **- FNB**   2025

SKILLS

- Generative AI (LLMs)
- RAG
- Prompt Engineering
- Python
- Sentiment Analysis
- Visual Studio/Code
- NetBeans
- Google Collab
- AutoCAD
- Google AI Studio
- MongoDB
- MySQL
- PlanetScale
- Microsoft Azure
- Firebase
- GitHub Actions
- GitHub (Version Control)
- MS Project
- Postman
- SonarQube/Snyk/CircleCI