

Renee Jenette Dhanaraj

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EDUCATION

University of California, San Diego

Bachelor of Science in Computer Science

San Diego, CA

Expected Graduation: June 2026

- Relevant Coursework: AI-Probabilistic Models, ML-Learning Algorithms, Database System Principles, Recommender Systems & Web Mining, Advanced Data Structures, Design & Analysis of Algorithms, Operating Systems Principle, Online Database Analytics App, Parallel Computing, Computer Vision, Computer Security

MiraCosta Community College

Associate's in Computer Science

Oceanside, CA

Aug. 2022 – May 2024

- Honors Award: Math Safaralian Scholarship Award
- Activities & Organizations: SI Leader, CS for the Common Good Club
- Relevant Coursework: Data Structures, Algorithms, Discrete Math, Computer Systems, Linear Algebra

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS

Agentic AI & Automation: LangChain, LangGraph, RAG Pipelines, LLM APIs (OpenAI, Groq), Prompt Engineering, n8n

Databases & Vector Stores: SQL (Oracle), Chroma, Pinecone, Supabase, MongoDB

Cloud & DevOps: Microsoft Azure, Docker, GitHub, REST APIs

Developer Tools: Git, Jupyter, VS Code, PyCharm, Microsoft Office, Google Suite, JetBrains, Azure DevOps

CERTIFICATIONS

Microsoft Certified: Azure Fundamentals

Teaching Computation in the Digital World

Complete Python Pro Bootcamp

EXPERIENCE

Gen AI & Azure Cloud Intern

July 2025 – Sept. 2025

BTSS Corp

- Developed an AI driven resume intelligence platform that automated candidate screening for recruiters by implementing semantic search capabilities to enable intelligent candidate job matching across Oracle HCL Cloud databases
- Built and optimized a Retrieval Augmented Generation pipeline using LangChain, Chroma, and Supabase with custom embedding strategies, then containerized and deployed the system with Docker on Digital Ocean to support multiple recruiting workflows
- Overcame integration and data optimization challenges by refining vector embedding storage and retrieval logic using Hybrid Search through iterative testing of chunking strategies, resulting in improved query accuracy and faster data processing times

Cloud & Data Engineering Intern

June 2024 – August 2024

BTSS Corp

- Designed data pipelines integrating Oracle Cloud ERP with Microsoft Azure applications for seamless data exchange, synchronizing financial and operational data across cloud platforms to support enterprise reporting and analytics
- Developed and optimized SQL queries to extract, transform, and validate data from Oracle databases for reporting and analytics workflows, including creating stored procedures that automated recurring data transformation tasks for the analytics team
- Resolved data integration challenges by improving query efficiency through indexing strategies and ensuring data consistency across platforms with validation checks, which enhanced overall system reliability and reduced data synchronization errors

Supplemental Instruction Leader (Java)

January 2023 – May 2023

MiraCosta Community College

- Led weekly group study sessions for Java programming, mentoring 20+ students in core computer science concepts including object oriented programming, data structures, and debugging techniques
- Facilitated peer learning through guided discussions, code walkthroughs, and collaborative problem solving exercises focused on object oriented programming principles, debugging strategies, and best coding practices
- Improved student engagement and academic performance by creating a supportive learning environment, breaking down complex programming topics into digestible concepts, and adapting teaching methods for diverse learners with varying skill levels

PROJECTS

GeoExplore AI (In Progress) | *LangChain, Python, ArcGIS API, Esri, OpenAI, Streamlit, Pandas*

- Building an AI-powered urban tourism platform that generates personalized walking tours by integrating LangChain agents with Esri ArcGIS APIs for geospatial analysis and route optimization
- Implementing natural language processing to translate user preferences into multi-step geospatial queries, combining POI data retrieval, route generation, and location-based narrative synthesis
- Developing full-stack application with interactive map visualizations using ArcGIS basemaps, deploying with FastAPI backend and Streamlit frontend for real time tour generation and exploration

AI Coder Buddy | *LangChain, LangGraph, Groq, Python, FastAPI, Docker, Pydantic*

- Built an agentic AI coding assistant capable of generating complete web applications from natural language prompts through a three stage architecture (planner, architect, coder) that produces validated, structured implementation plans
- Designed an end to end autonomous agent workflow using LangChain and LangGraph with structured Pydantic models, enabling task planning, code generation, iterative debugging, and safe sandboxed file operations
- Implemented tool enabled agents with custom read/write operations confined to isolated project directories, integrating prompt engineering and structured output schemas to automate development workflows
- Delivered a one prompt app generation experience enabling developers to transform user requests into actionable implementation steps and fully functional projects with minimal manual setup

Cold Email Generator | *Python, LangChain, LLama, Streamlit, Pandas, Requests, Groq*

- Developed an automated cold email generation tool that scrapes company and contact information from target websites to craft personalized outreach messages, streamlining business development and recruitment workflows
- Implemented web scraping pipelines using Requests to extract key business details (name, role, company, domain context) from career pages and company websites, parsing structured data with Pandas for systematic contact management
- Leveraged prompt engineering and LangChain with LLama models to generate contextually relevant email content, integrating scraped business intelligence to tailor messaging dynamically for improved personalization and engagement rates.
- Built interactive Streamlit interface enabling users to input target URLs, preview extracted information, and generate customized email templates in real time with adjustable tone and formatting parameters