

CLIVE LEWIS

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EXPERIENCE

GREEN2GOLD Environmental Education Group

Remote

Software Development Intern

June 2025 – Present

- Built a Python REST API backend and Flutter mobile client, designing scalable services for content delivery and subscription workflows.
- Designed a PostgreSQL data layer with reusable API endpoints for managing inquiries, sponsorship forms, and media assets across the application.

Keymate.AI Inc.

New York City, New York

Full Stack Web Development Associate

January 2025 – May 2025

- Owned a production Chrome extension end-to-end on a 4-person team reporting to the CTO, integrating REST APIs and backend microservices to serve 1,500+ paying customers.
- Integrated the Google Gemini LLM API into production for real-time content summarization, evaluating output quality and iterating based on feedback from 1,500+ paid users.
- Used Claude and Copilot daily as a core part of the development workflow, building CI/CD pipelines with Jest and Playwright for reliable, continuous shipping.

Cognizant Technology Services Ltd.,

Mumbai, Maharashtra

Software Engineering Team Lead

January 2022 – April 2023

- Built and operated 190+ Java integration interfaces for enterprise clients including British Airways, maintaining 100% SWIFT compliance at production scale.
- Traced a recurring production issue to its root cause rather than patching symptoms, designing an automated Java validation routine that eliminated the failure class entirely.
- Worked directly with business and IT stakeholders to integrate chatbot and remittance systems with SAP S/4 HANA, improving data recovery by 15%.

TECHNICAL SKILLS

Scripting & Programming Languages: Python, Java, TypeScript, JavaScript, SQL, C++

Frameworks/Libraries: LangChain, PyTorch, Node.js, Express.js, React.js, Next.js, Flutter, Pandas, NumPy

Agentic AI & Cloud: Agentic AI (Tool Use, Task Decomposition, Planning), RAG, LLM APIs (OpenAI, Gemini), Vector Databases, AI Dev Tools (Claude, Copilot), AWS, GCP, Azure

Database Management: PostgreSQL, MongoDB, MySQL, DynamoDB, Supabase, Vector DBs (Pinecone, Chroma)

Software / Tools: REST APIs, Docker, Kubernetes, Git, Linux, CI/CD, Jest, Playwright, Agile

ACADEMIC PUBLICATION

Clive Lewis, Tarun Ramapuram, Juan Shan, “**Knee Osteoarthritis Detection Using Bone Distances**”, IEEE/ACM Conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE 2025), New York City, New York, June 2025

- Developed a MATLAB–PyTorch pipeline analyzing 160+ MRI scans, achieving 76% accuracy and AUC 0.78 for osteoarthritis severity prediction.

ACADEMIC PROJECTS

Rosa – Agentic AI Health Platform (Python, LangChain, RAG, Vector DB)

April 2025

- Designed a multi-agent system in Python using LangChain, implementing tool use, task decomposition, and planning across specialized agents with a vector database for retrieval-augmented generation.
- Built feedback loops to evaluate agent outputs and improve response quality, collaborating with a 3-member team to ship a scalable MVP targeting 25K users.

Interactive Novel Web Application – React, Node.js, OpenAI API, AWS, MongoDB

February 2025 – May 2025

- Engineered and deployed a full-stack application on AWS (EC2, RDS, CloudFront), integrating the OpenAI API for real-time, personalized content generation.
- Profiled and optimized backend request flows, reducing API call volume by 30% while maintaining reliability under real usage.

EDUCATION

Pace University, Seidenberg School of Computer Science and Information Systems

New York, NY

Master of Science (MS) in Computer Science

May 2025

Relevant Coursework: Artificial Intelligence (AI) | Algorithms & Data structures | Parallel Computing and Distributed Systems

Mumbai University, Don Bosco Institute of Technology

Mumbai, India

Bachelor of Engineering (BE) in Mechanical Engineering

June 2021

Relevant Coursework: Data Engineering & Information Retrieval | Cybersecurity & Law | Applied Mathematics