CHRISTIAN MARTIN

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EDUCATION

BACHELOR OF SCIENCE: COMPUTER SCIENCE   12/2024

University of Illinois Chicago, Chicago, IL

Relevant Coursework: Data Structures & Algorithms • Software Design • Computer Algorithms • Software Engineering I & II • UI Design • Database Systems • Natural Language Processing

EXPERIENCE

CINEXT

Founder & Lead Developer   01/2025 to Current

• Built and published an app to the App Store, featuring a proprietary algorithm to generate personalized movie recommendations.
• Utilized React Native for mobile development, Supabase for database management, and Express on Railway for secure API calls.
• Engineered a recommendation refinement algorithm that increases organic suggestions by 75%.
• Designed a fully responsive and accessibility-friendly UI, supporting dynamic text sizes and all iPhone screen dimensions.
• Developed backend rate limiting and app maintenance controls to ensure scalability, security, and high availability.
• Leveraged Google's Gemini API for personalized film generation and TMDB API for visually rich displays.

OUTLIER AI

AI Training Specialist   11/2024 to Current

• Engineer complex tasks for LLMs to address abstract problems in computer science, advancing model capabilities.
• Analyze model outputs, verify solutions, and provide detailed feedback and scoring to enhance performance.
• Apply programming expertise with a focus on Python to support the development of robust AI systems.

PROJECTS

Idea Validator

Completed - 07/2025

• Built an AI agent using Python and React to validate business ideas by identifying competitors and suggesting strategic directions.
• Connected OpenAI's GPT-4o to LangChain with function-calling tools for live web search and structured analysis.
• Enabled token-level LLM streaming in React via a threaded Flask backend and a custom queue-based token handler.
• Engineered dynamic context window updates per iteration to balance token usage and maintain agent memory.

City Planner & Management

Completed - 11/2024

• Developed a MERN stack platform for proposing infrastructure projects, with RESTful APIs for proposals, approvals, and client data.
• Collaborated in an Agile team using Azure DevOps, contributing to sprint planning, backlog refinement, and iterative development.
• Co-authored the SDLC final report, documenting system architecture, development workflows, and project retrospectives.

FragranceArchive

Completed - 09/2024

• Built a social media platform designed specifically for fragrance enthusiasts with a robust Flask and PostgreSQL backend.
• Designed and implemented an ETL pipeline to extract over 59,000 fragrance data entries from CSV, transform it to ensure data integrity and consistency, and load it into a PostgreSQL database hosted on the Heroku cloud.
• Deployed with Heroku, gaining experience in a cloud-based production environment, including managing environment variables, database migrations, enhancing user security, and monitoring performance.

SKILLS

Python, C++, C, Java, HTML/CSS, JavaScript, SQL, Swift

React, React Native, SwiftUI, Node.js, Express.js, MongoDB, Supabase, PostgreSQL, MySQL, Flask, Git, Azure DevOps, Jira