(210) 027 7701 | 61111) 00:401 (6:9111411:00111

Software Engineer

Education

The Master's University

May 2025

• B.S. in Computer Science, emphasis in Artificial Intelligence

Santa Clarita, CA

Fullstack Academy (Web Development)

May 2024-Aug. 2024

LinkedIn | erinyoodev.com

Certificate of the Fullstack Live Online Software Engineering Immersive

(Remote)

Relevant Courses

Calculus 2, Computer Vision, Artificial Intelligence, Machine Learning, Natural Language Processing, Database Management Systems, Operating Systems, Networking Principles and Architecture

Technical Skills

Languages: JavaScript, Python, SQL, HTML, CSS

Frameworks & Libraries: Frontend (React, Redux Toolkit), Backend (Node.js, Express, Prisma), OpenCV, Bootstrap

Database: Relational (PostgreSQL, MySQL)

Dev. Tools: Version Control (Github, Git), IDE (VSCode)

Projects

Treasure Hunt - Artificial Intelligence Course

Dec. 2024 - Jan. 2025

- Developed a reinforcement learning Al game in **Python**, enabling an Al agent to compete against a human player in a
 strategic environment,resulting in an interactive platform where participants aim to collect treasures while avoiding
 traps on a grid.
- Implemented an **AI optimization technique** that learns from reinforcement learning and positive feedback loops, refining decision-making processes to reduce error rates effectively.
- Formulated a **Q-learning** algorithm enhanced by an epsilon-greedy strategy, **training the AI model 10,000** times, integrating **Reinforcement Learning** to boost decision-making and gameplay performance.
- Integrated the game landscape into a 2D grid architecture, marking positions as treasures ('T') and vacancies ('-').
- Managed state-action rewards and debugged Al-driven decision processes.

Lace Up - Fullstack Academy Capstone Project

Jul. 2024 - Aug. 2024

- Owned an entire **Software Development Life Cycle**, by designing and implementing a **full-stack e-commerce web application** featuring user authentication, product browsing, as well as detailed product pages.
- Evaluated **technical requirements** and researched adequate technologies, utilizing clean code principles to maintain organization.
- Constructed the frontend using React and Redux, orchestrating global state management through RTK Query with state
 slicing to streamline API requests, while incorporating 11 RESTful API endpoints focused on authentication and product
 retrieval, ultimately reducing the data retrieval time.
- Developed the backend using Express and Prisma ORM, applying data mapping techniques to structure a PostgreSQL database that manages users, products, and orders across seven tables, improving data retrieval efficiency.
- Deployed the frontend on **Netlify**, integrating **React** to improve user interface responsiveness, and maintained the backend on **Render**.
- Enforced **security practices** in application development by implementing simple email/password authentication to safeguard user data and communication channels, reducing the risk of data breaches and unauthorized access.

Emotion Detection - Computer Vision Course

Apr. 2024

- Engineered an emotion detection system that processes video footage to identify various human emotions, using
 OpenCV for facial recognition algorithms and image segmentation, and improved the model with Local Binary Patterns
 Histogram for texture analysis and contrast enhancement, training it on a dataset of 250 images per emotion.
- Implemented **real-time emotional recognition** training to discern five specific emotions from video frames, incorporating **OpenCV**, and displayed classified facial emotions bolstered by their confidence metrics.
- Refined the emotion detection feature, recalibrating and stabilizing unusually high confidence levels to 5%.