

JACOB LEONE

ARTIFICIAL INTELLIGENCE SPECIALIST

Portfolio: <https://www.jacobleone.tech>

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Summary

I am driven by an intrinsic passion for tackling both creative and technical challenges. As part of agile development teams, I thrive on collaborating towards our shared mission: delivering exceptional value to clients efficiently and effectively. Before diving into the tech arena, I pursued an intensive graduate program at a top-tier university, focusing on the convergence of artificial intelligence and psychology. This academic journey endowed me with a unique lens: approaching AI development from a human-centric perspective and deeply understanding the nuanced ways people interact with technology. Beyond my academic pursuits, I am a perpetual learner, drawing from experiences that span leadership, creativity, problem-solving, and shepherding projects from mere ideas to successful execution.

Education

Master of Science in Artificial Intelligence

Florida Atlantic University, Boca Raton, FL. Graduation date: December 2023

Cumulative GPA: 3.9

Bachelor of Arts in Psychology

Florida Atlantic University, Boca Raton, FL. Graduation date: May 2022

Technical Skills

Programming Languages: C/C++, GLSL, HTML, CSS, Python, JavaScript, TypeScript, Swift, R

Tools & Technologies: AWS, Docker, Postman, AI, node, VSCode, PCB, DSP, Raspberry Pi

Operating Systems: Linux Ubuntu, Windows10, MacOS

Frameworks: Tensorflow, Pytorch, REST, Pandas, Numpy, Sklearn, Seaborn, React, Chakra UI, Firebase, Next JS, Jest

Professional Experience

Team Lead & Software Architect, AuthentiKid | California • Idaho • Florida

August 2023 – Present Day

Development of robust AI systems suited for AuthentiKids business needs. Collaboration and management of a small team of developers, psychologists and business leaders.

- Spearheaded the development of robust software systems tailored for AuthentiKid's operational requirements, resulting in new AI powered security tools.
- Managed a cross-functional team of developers, psychologists, and business leaders, fostering a collaborative environment and achieving a functional product.
- Overseeing comprehensive data collection initiatives and AI model training processes, ensuring optimal performance and accuracy
- Directed the design and implementation of both front-end and backend, including PKI systems.

Graduate Research Trainee, National Science Foundation at FAU | Boca Raton, FL

August 2022 – August 2023

Led research and development using CNNs for ocular disease detection via retinal photography.

- Developed, and tested software for detecting ocular diseases with deep learning and medical images using Tensorflow.
- Collaborated with professors and other graduate students on performing research and designing experiments.
- Implemented a framework for a web based audio-visual solution.

PCB Design & Assembly, Vector Climate | Pompano, FL

May 2020 – August 2022

Worked with Vector Climate Labs to assist in the production and develop of the companies advanced mobile cooling systems.

- Production and fabrication of the company's flagship products, the Vector and Spartan for industrial outdoor climate control.
- Responsible for PCB assembly duties involving prototyping, unit test and functional test assigned by Project Manager
- Engaged in onsite coordination, progress, planning, closeout, & quality control to add support to project development
- Soldering SMT and Thru Hole components on: PCBs, IC's, microcontrollers, power electronics, FETs, diodes and resistors. Sizes included 0402, 0603, 0805 SMT resistors, capacitors, diodes, ESD components

Relevant Projects

Online Deep Learning Based Age Authentication | AI Web App

January 2024

A web app for classifying users predicted age online for business and client security.

- Trained on synthetic quiz data from hundreds of simulated participants with personas for each age class.
- Person-centric tokens for issuing authentication tokens to user to validate their age with JSON Web Tokens. Private business servers can verify client tokens issued by the software.
- Deep neural net trained to classify users age based on quiz answer inputs locally using Tensorflow.
- Inferencing done on the web with Tensorflow JS. The model is trained in python and converted into tfjs format.
- Software and model are deployed on AWS as a network of servers.

Full Stack Website | Front End & Back End

January 2023

Designed, built and tested a full stack web platform for my immersive music & art based side project

- Deployment: <https://obscuritymusic.net>
- Chakra UI and CSS styles for front end design. Animations and reactivity with framer motion and intercept observer. Interactive Audiovisual puzzles with P5 and RNBO
- Firebase on the back end for user authentication with email, document reads & writes and profile image storage.

Object Detection System on Social Media | Deep Learning

December 2022

The goal of this project was to implement Convolutional Neural Network for detection of opiate related activity on Instagram.

- Designed a Convolutional Neural Network (CNN) leveraging computer vision techniques. Used web scraping post-training to analyze a vast number of images across the platform.
- Worked closely with professors and colleagues to research, design, and systematize the detection mechanism.

Relevant Coursework

Data Structures
Cognition

Deep Learning
Artificial Intelligence

Natural Language Processing
Software Engineering

Advanced Internet Systems
Analysis of Algorithms

Data Science
Comp Foundations of AI