JACOB LEONE
ARTIFICIAL INTELLIGENCE SPECIALIST

Portfolio: https://www.jacobleone.tech

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Education

Master of Science in Artificial Intelligence　　　　　　　　　　　　　　　　**Cumulative GPA: 3.9**
Florida Atlantic University, Boca Raton, FL. Graduation date: December 2023
Bachelor of Arts in Psychology
Florida Atlantic University, Boca Raton, FL. Graduation date: May 2022

Technical Skills

Programming Languages: C/C++, GLSL, HTML, Python, JavaScript, typescript
Tools & Technologies: Colab, Microsoft Office Suite (Word, Excel, PowerPoint), Max MSP, IDEs, Soldering, DSP, Raspberry Pi, DAWs
Operating Systems: Linux Ubuntu, Windows10, MacOS
Frameworks: Tensorflow, Pytorch, Pandas, Numpy, Sklearn, Matplotlib, Seaborn, React, React-Native, Chakra UI, Native-Base, Firebase, Next JS, Wavesurfer, RNBO JS

Professional Experience

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.

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.
- Oversaw 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.

Production & Development (Internship), Vector Climate | Pompano, FL　　　**May 2022 – August 2022**

Worked with Vector Climate Labs to produce and develop the companies advanced mobile cooling systems.
- Production and fabrication of the company's flagship products, the Vector and Spartan for industrial outdoor climate control.
- Collaborated with cross-functional teams for timely production and assembled PCB prototypes.

PCB Design & Assembly, Steven Leone; PE LLC| Lake Worth, FL　　　**September 2020 – September 2023**

Responsible for PCB assembly duties involving prototyping, unit test and functional test assigned by Project Manager.
- Practiced standardized procedures for following schematics, spec and BOM sheets, which led to efficient production of clients designs for timely product releases.
- 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

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.
- The research findings are pending publication, aiming to provide insights into online drug-related activities, This potentially aids law enforcement agencies.

Web Based Audio-visual Platform | Web Audio & Graphics　　　**August 2022**
- Designed, built and tested CRUD web platform for my immersive art based side project. Including frameworks like Next.js, React, Chakra UI, Firebase, P5.js, RNBO.js and web audio. Repo: https://github.com/jacklion710/jacklions-website
  Site: https://jacklion.xyz/
- Integration between RNBO.js, web audio and p5.js for an interactive web based experience involving interactive audio and visual elements on a web browser.
- Created an innovative & responsive UI using typescript for user friendly web based audio-visual experiences.

MIDI Delay Plugin Development | Audio Development　　　**July 2021**
Developed a unique algorithm for delaying signals in real-time using circular buffers as a function of a tuned MIDI note input in Max MSP.
- Built a plugin for use in electronic music production using Max MSP.
- Implementation of user feedback before a product release.
- Published devices online on gumroad: https://jacklion.gumroad.com/l/tunedelay?layout=profile

Relevant Coursework

Python	Data Structures	Deep Learning	C Programming
Natural Language Processing	Advanced Internet Systems	Data Science	Cognition
Artificial Intelligence	Software Engineering	AI in Medicine & Healthcare	Analysis of Algorithms
Computational Foundations of AI			