Jack Yurkanin

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Education

Massachusetts Institute of Technology, Cambridge, MA — June 2023
Bachelor of Science in Mechanical Engineering with Computer Science — GPA: 3.7
Coursework: Artificial Intelligence (AI), Advances in Computer Vision, Computational Structures, Linear Algebra, Introduction to Algorithms, Product Engineering Process

Experience

Viracocha Inc., Miami, FL — Jan - September 2024
Founder and Lead Software Developer

- Built full-stack for web with Nextjs in Typescript, Python backend, hosting on Vercel, databases with Supabase and AWS S3 Buckets, Stripe API for payments, and several other APIs
- Created apps using Swift and Java with api to backend services written in python and C++
- Raised $40,000 and talked to +1000 people across industries nationwide for sales and market research

Meta - Portal AI, Burlingame, CA — May - August 2022
Software Engineering Intern

- Designed and implemented novel machine vision tools to identify users, extract user information, and derive performance insights from all of Portal's video data to provide a personal experience
- Optimized scalability for updating all user information in the product video database using a joint execution framework with Cuda, making the program run in hours instead of days

Meta (formerly Facebook), Menlo Park, CA — June - August 2021
Facebook University Engineering Intern

- Android App Development: Utilized Android Studio to develop a diverse range of Java Apps including a music making media app with a real-time touch screen synthesizer

MISTI Italy - University of Sannio, Remote — December - March 2021
Software Research Assistant

- Developed a JavaScript web app to provide real-time online traffic monitoring and smart navigation in a map interface from the UniSannio API for efficient and effortless navigation

MIT Sea Grant, Cambridge, MA — June - August 2020
Research Assistant

- Built a biogeochemical integrated assessment model in Matlab that predicts marine resource conditions using time given projections for climate change and various socio-economic scenarios

Projects

Eye Mouse AI: Created an AI program that utilizes face and eye recognition to manipulate the pc mouse location based on where a user is looking for empowering hands-free computer control via eyes

Skills & Interests

Programming Languages: Python, C++, Java, JavaScript, Matlab, RISC-V, HTML, CSS, CSV, TypeScript
Software & Tools: PyTorch, Tensorflow, React, Arduino, Solidworks, Autodesk Fusion 360, Pandas, Node.js, OpenCV, multithreading, NumPy, SQL, Next.js, Supabase, AWS, Hosting, RESTful APIs, Tailwind CSS

Activities & Accomplishments

NCAA MIT Varsity Volleyball	2019-2022
MIT Event Staff	2019-2023
MIT Formula SAE Team	2020
MIT Society of Hispanic Professional Engineers (SHPE)	2019-Present
Telora (S24)	2024