MICAH AKAI-NETTEY

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EDUCATION

Tufts University, Medford, MA | Full-Time, Expected **May 2024**
Bachelor's Degree | Major**: Computer Science**, Minor**: Entrepreneurship** | Honors: Dean's List – Spring 2023

Publication: *Ziyi Zhang, Samuel Micah Akai-Nettey, Adonai Addo, Chris Rogers, Jivko Sinapov*. arXiv, Oct 2021.

SKILLS

Languages: Advanced: Python, JavaScript, HTML/CSS | **Familiar:** TypeScript, SQL, C++, C#, Java
Technologies/Methodologies: Kubernetes, TDD, CI/CD, Bootstrap, Git/GitHub, ReactJS, NodeJS, LTSM, CNN, TensorFlow, PyTorch

EXPERIENCE

Raid The Room LLC — **Boston, MA**
Software Engineer. Intern | Product Development Team — June 2022 – Present
- Designed and built a robust platform using **TypeScript** and **Gather API** that enables school clubs to host interactive virtual events, resulting in a **20+%** increase in member engagement and **15+%** increase in membership.
- Managed dynamic server deployment using **Heroku** for consistent uptime across unique events for over **10** virtual spaces.
- Integrated **AWS** to host over **100** custom objects, enhancing space personalization, and created seamless integration with Discord and Slack, boosting club member interactions by **30%.**
- Introduced version control practices to the team, enhancing project collaboration and increasing efficiency by **50%.**

Equimpa — **Remote, CA**
Software Engineer. Intern | Full Stack Web Development Team — June 2023 – September 2023
- Designed and implemented new data visualization components for the dashboard of a web application using **ReactJS**, **Material-UI**, and **ChartJS**, which increased time spent on the time by **21%**
- Executed legacy code maintenance for the web application, including package upgrades, resolution of code disruptions, leading to a **10%** increase in application performance.
- Developed and integrated **GraphQL** APIs to streamline data retrieval and processing, resulting in a **20%** reduction in load times and significantly enhancing user experience.

Multimodal Learning, Interaction, and Perception (MuLIP) Lab — **Medford, MA**
Machine Learning Researcher. Intern | Reinforcement Learning Team — March 2021 – June 2022
- Built a mobile-based augmented reality application using **Unity**, **Vuforia** and **Micro-Python** to visualize and simplify complex reinforcement learning concepts attracting over 100 educators and students for live demonstrations.
- Developed a Wi-Fi module for Spike Prime LEGO kit for faster data sharing using ESP8266 and MQTT technology, which reduced data sharing time by **50%,** leading to its implementation in upgrading 10 robotic kits.
- Collaborated with team to develop a LED-based directional indicator for a turtle bot, significantly reducing workspace accidents by a projected **33%** by clearly signaling the robot's intended movement path to nearby humans.

PROJECTS

Personal Portfolio Website, *source-code* | Full Stack, React — August 2023 – Present
- Developed a dynamic, responsive website using React, ensuring seamless user experience across various devices, and screen sizes
- Implemented a robust content management solution by integrating the Google Sheets API, allowing for real-time content updates without the need for redeploying the website improving development efficiency.
- Configured and managed a Virtual Private Server for hosting the website, which includes setting up Nginx to serve the react application and configuring the server to handle client-side routing effectively, addressing common SPA deployment challenges.

Trading-Bot, Source-code | Algorithmic Trading — November 2023 – Present
- Developing an automated trading bot by integrating the OANDA API.
- Utilizing Flask as a backend framework to spin up simple platforms for TDD and serve as an alternative to the more complex frontend.
- The project includes a web interface that displays real-time and historical trading data, providing insights into the bot's performance.
- Employing version control with Git to manage and document the development process, ensuring robustness and scalability of the solution.

Personal YouTube channel | Content Creation and Branding — January 2023 – Present
- Created and actively manage a personal YouTube channel focused on documenting my journey in software engineering, attracting a growing audience interested in tech careers.
- Host a series of podcasts featuring guests from tech industry, facilitating discussions on current trends, career advice, and industry insights.
- Current YouTube metrics: 162.6 watch hours, 2.9K views, 107 subscribers.

LEADERSHIP AND INVOLVEMENTS

Leadership/Organizations: National Society of Black Engineers *(Senator)*, Tufts Magicians Club, Tufts Pick-up Soccer club.
Interests: DIYs, Fitness, Podcasting, Soccer, Video Editing