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.

Relevant Coursework: Data Structures, Algorithms, Intro to Security, Web Programming, Machine Structure and Assembly Language, Programming Languages, Computation Theory, Probability and Statistics, Database Systems.

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
- Increased member engagement by 20% and membership by 15% of **3** school clubs by building a robust platform for hosting virtual events using **TypeScript** and the **Gather API**.
- Maintained **consistent uptime** across unique events for over **10** virtual spaces by creating dynamic server deployment using **Heroku**.
- Increased club-member interactions by **30%** by creating seamless integration between the platform and Discord or slack
- Enhanced virtual space personalization, by designing and hosting over 100 custom objects using **AWS**.
- Increased project collaboration and team efficiency by **50%** by introducing version control practices and **TDD** to the team.

Equimpa   **Remote, CA**
Software Engineer. Intern | Full Stack Web Development Team   June 2023 – September 2023
- Increased time spent on webapp by an average of **21%** by building new data visualization components for the dashboard of the webapp using **ReactJS**, **Material-UI**, and **ChartJS**.
- Increased application performance by **10%** by executing code base upgrades, running legacy code maintenance, and resolving code disruptions.
- Reduced load times by **20%,** significantly enhancing user experience, by integrating **GraphQL APIs** to streamline data retrieval and processing.

Multimodal Learning, Interaction, and Perception (MuLIP) Lab   **Medford, MA**
Machine Learning Researcher. Intern | Reinforcement Learning Team   March 2021 – June 2022
- Grew interest of **100** educators by building a mobile-based augmented reality application using **Unity**, **Vuforia** and **Micro-Python** to visualize and simplify complex reinforcement learning concepts.
- Reduced data sharing time by **44%** by developing a Wi-Fi module to enhance a SPIKE Prime LEGO kit using ESP8266 and MQTT technology.
- Recorded a reduction in potential workspace accidents by **33%** by creating a LED-based directional indicator for a turtle bot to clearly signal 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.
- Automating back-testing by developing algorithms to simplify trading by looking at historical data from the markets
- 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.