

# MICAH AKAI-NETTEY

micahnettey@gmail.com | 617-694-9282 | [linkedin.com/in/micah-nettey/](https://www.linkedin.com/in/micah-nettey/) | [github.com/iam-micah/](https://github.com/iam-micah/) | <https://micahnettey.com>

## EDUCATION

### Tufts University

Bachelor of Science in Computer Science; Minor in Entrepreneurship

Medford, MA

September 2020 – May 2024

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

**Relevant Coursework:** Data Structures, Algorithms, Web Programming, Machine Structure and Assembly Language, Functional Programming Languages, Computation Theory, Database Systems, Calculus III, Probability & Statistics.

## SKILLS

**Languages:** Python, JavaScript, HTML/CSS | TypeScript, SQL, C++, C#, Java | C

**Technologies/Methodologies:** TDD, CI/CD, Bootstrap, Git/GitHub, ReactJS, NodeJS, LTSM, CNN, TensorFlow, PyTorch

## EXPERIENCE

### Raid The Room LLC

Software Engineer. Intern | Full Stack Development Team

Boston, MA

June 2022 – Present

- Full stack engineer for startup that creates immersive, seamless, and engaging virtual events for businesses and brands.
- 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**.
- Increased club-member interactions by **30%** by creating seamless integration between the platform and Discord and 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

Software Engineer. Intern | Full Stack Web Development Team

Remote, CA

June 2023 – September 2023

- Software engineer intern for a startup that develops a web app to track success of nonprofits by measuring financial metrics and impact metrics.
- 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

Machine Learning Researcher. Intern | Reinforcement Learning Team

Medford, MA

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..
- 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 website in React

August 2023 – Present

- Developed a dynamic, responsive website using React, to display projects and highlight my journey through software engineering.
- 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, and career advice.
- 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.