

MICAH AKAI-NETTEY

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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 membership of 3 school clubs by an average of **15%** by building a robust platform for hosting virtual club events using **TypeScript** and the **Gather API**.
- Created a seamless integration between the platform and Discord and Slack to make onboarding new users easier.
- Increased project collaboration and team efficiency by introducing version control practices and **TDD** to the team.

Distributed Quorum

Software Engineer. Intern | Full Stack Web Development Team

Remote, CA

June 2023 – September 2023

- Software engineer intern for a financial startup that develops investment solutions for sustainability needs by developing applications that track financial and impact metrics of nonprofits.
- Improved user experience on the webapp by building new data visualization components for their dashboards using **ReactJS**, **Material-UI**, and **ChartJS**.
- Improved developer experience by upgrading third-party libraries and dependencies to their most recent versions, while fixing breaking changes that came up during the code base upgrade.

Multimodal Learning, Interaction, and Perception (MuLIP) Lab – Tufts University

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 from **~1 min to ~35 secs** by building a custom Wi-Fi module to replace the existing Bluetooth technology on a LEGO robot kit by using ESP8266, MQTT, and micro-python.
- Developed a solution to reduce potential workspace accidents 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](#) | 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: 170 watch hours, 3.3K views, 118 subscribers.

LEADERSHIP AND INVOLVEMENTS

Leadership/Organizations: National Society of Black Engineers (*Senator*), Tufts Magicians Club (*member*), Tufts Pick-up Soccer club (*member*).