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## EDUCATION

### Massachusetts Institute of Technology

**May 2025**

*Candidate for Bachelor of Science in Computer Science and Engineering*

*Cambridge, MA*

- Relevant Classes: *Fundamentals of Programming, Introduction to Deep Learning, Calculus, Mathematics for Computer Science, Linear Algebra, Introduction to C and Assembly*

## EXPERIENCE

### Meta - Javascript, React, Node

**June – August 2022**

*Software Engineering Intern - Meta University*

*Menlo Park, CA*

- Designed, constructed, and showcased a full-stack browser-based interface design tool; Set up deployment pipelines that cut down shipping time by 50%.

### MIT CSAIL - Deep learning, Python

**February 2022**

*Undergraduate researcher – Health ML*

*Cambridge, MA*

- Shaped the research direction by developing and evaluating native and modified GAN methods to generate synthetic data using ECG, EHR data from public remote sensing database.
- Implemented the following models from papers on remote health care data imputation: MICE, Dynamic Bayesian Network & GANs with RNNs.

### MIT CSAIL - Python

**March – May 2022**

*Document processing*

*Nairobi, Kenya*

- Built an interface around the document processing automation tools for the Central Bank of Malaysia.
- Met with the central bank team to translate desired client features to technical specifications.

### MIT Media Lab - Golang

**September 2021 – December 2021**

*Research Assistant – Bitcoin Utreexo*

*Cambridge, MA*

- Collaborated closely with a team of 3 on utreexo, an open-source Bitcoin research project.
- Optimized the project's runtime by 15% by refactoring the codebase to be more concurrent.

## LEADERSHIP

### Tunzwa - Python

**December 2018 – December 2019; May 2021**

*Founder*

*Kikuyu, Kenya*

- Improved infant vaccination rate by 80%, in pilot hospital, by building a start-up that reminds parents of their babies' vaccination schedule.

## PROJECTS

### Autonomous Boat - C++, ROS

**November 2022 –**

- Wrote efficient methods to visualize clusters as point clouds.
- Experimented surface reconstruction methods to generate accurate surfaces from LiDAR point clouds

### Ray tracer - Rust

**July 2022**

- Implemented a 3D ray tracing algorithm in Rust.

### Mini-OS kernel - Rust

**August 2022**

- Built a mini 64-bit kernel targeting x86 architecture systems, implementing bios boot & text display.

### Bittorrent protocol - Rust

**August 2022**

- Wrote and optimized a bittorrent client to learn network and systems programming.

## SKILLS

- **Technical:** Open source, Rust, Golang, PyTorch, Python Django/Flask, Javascript, Git, CI/CD, HTML/CSS