UHURU HASHIMOTO

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EDUCATION

Dartmouth College, Hanover, NH   **June 2024**
Bachelor of Arts, Double Major in Computer Science and Engineering   **Major GPA 3.70, GPA 3.47**
Bachelor of Engineering, Computer Engineering
Master of Engineering, Computer Engineering
Relevant Coursework: *Object Oriented Programming, Software Design and Implementation, Computer Architecture, Operating Systems, Applied Cryptography, Security and Privacy, Discrete Math, Algorithms, Senior Capstone Project*
Honors/Awards: *four professor citations for academic excellence*

Ellensburg High School, Ellensburg, WA   **June 2018**
Honors/Awards: National Merit Scholar Finalist, SAT Scores: 1570   **GPA 3.96/4.0**
Activities: Cross Country, Cross Country Skiing Junior Nationals Team, Track, Environmental Club

RELEVANT PROFESSIONAL EXPERIENCE

Ascend Analytics, Boulder, CO   **June 2022 - April 2023**
backend developer intern, Python
- optimized solutions using linear programming to manage real-time battery operation
- streamlined existing codebase alerts system to improve team development efficiency

Meshtastic Emergency Client   **September 2022 - June 2023**
open-source contributor, Rust
- co-creator of open-source client in collaboration with existing open-source Meshtastic ecosystem
- spearheaded firmware changes to collect real-time mesh network topology

Teaching Assistant, Dartmouth College   **January 2023 - June 2023**
Embedded Systems, Intro to Scientific Computing
- collaborated with instructor and team to tailor curriculum to address AI development
- served as point of contact for students completing term projects

PROJECTS

- **Computer Science**
  - o Meshtastic – Open-source mesh network management client. Capstone Senior Project.   *Rust, 2022-23+*
  - o Operating System – Demo 'Nix-style operating system, from the paging level on up.   *C, Fall 2022*
  - o Human Randomness Detector - binary LSTM string classification for cybersecurity.   *C, Python, Spring 2023*
  - o Tiny Search Engine – A search engine that crawls pages to a specified depth.   *C, Summer 2021*
  - o Project Music Queue – Full blockchain architecture to create collaborative playlists.   *Python, Spring 2021*
  - o Giftly – An Android ARCore app distributes presents through virtual golf.   *Java, C#, Winter 2020*
  - o Sudoku Solver – Recursive DFS with backtracking.   *C, Summer 2021*

- **Electrical Engineering**
  - o AC/DC Converter – HPR, disc. indirect converter, inductor to spec. Capstone Senior Project.   *Fall 2022*
  - o Wordle on FPGA – On-chip resource allocation and FSM for integrated circuit design.   *Spring 2022*
  - o Arduino Projects – bare-metal code projects (signal handlers, PWM driver, FSM).   *Spring 2022*
  - o Analog Heart Rate Monitor – Signal Filtering, BBM Switching, and Class D Amplification.   *Winter 2021*
  - o Duck Car – Analog PID control of real-world system topology.   *Fall 2021*
  - o Origami Shelter – Project life cycle, structural engineering, and performance optimization.   *Winter 2020*

SKILLS

- **Languages:** Python, Rust, C, C++, C#, TS, JS, Java, bash
- **Frameworks/Libraries:** React, Tauri, Jupyter Notebook
- **Other Tools:** MATLAB, SolidWorks, SISOTool, OrCAD Capture/PSpice, Vivado, VHDL, Git, Linux (Arch, Ubuntu)

INTERESTS

- Human-Powered Hundred Peaks 2023, DI Cross Country/Track Athlete 2022-2023, Dartmouth Mountaineering Club Leader 2022-2023