

Muhammad Abdullah

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EDUCATION

Drexel University

Bachelor of Science in Computer Science

Philadelphia, PA

Sep. 2022 – Jun. 2026

SKILLS

Languages & Libraries: C++, Python, C, Go, PostgreSQL, Bash, JavaScript, TypeScript, Pytorch, Selenium, pandas, NumPy, Matplotlib

Developer Tools & Frameworks: React, Node.js, Git, Docker, Neovim, Linux, AWS, Jupyter Notebooks, GitLab CI/CD

EXPERIENCE

Software Developer Intern | [WebApp](#)

Apr. 2024 – Present

Sharing Excess

Philadelphia, PA

- Led the development of React.js and Firebase web app that monitored the delivery of 50 million pounds of leftover food to date from donors to recipients, saved over 500 hours of manual work per month
- Spearheaded 5 projects in 5 months with donors to meet their needs, focused on leading the development of organization analytics, allowing 50+ organizations to visualize their impact and generate reports for their contribution, increased donor satisfaction rate by 70% - one of my recent demos

NASA High Altitude Ballooning | *Bash, C, Raspberry Pi, Python, YOLO*

Jan. 2023 – Present

- Led an 8-member NASA funded team, studied ozone level variations & gravity waves during solar eclipses using High Altitude Ballooning
- Oversaw hardware & software developments for video streaming and payload tracking, programmed a RaspberryPi in Bash using FFMPEG (CLI program used to process video and audio) for recording, compression & streaming, successfully live streamed video & data for 6 hours
- Wrote automation and decryption algorithms in C to decode hexadecimal ozone level measurements (100% accuracy) recorded by an ozonesonde & simplified communication with venting sytem to just 4 key presses reduced latency by 99%
- Successfully slowed ascent rate to achieve neutral buoyancy, gathered data for 90% of totality, currently writing a C program and using computer vision to automate venting for pressure control at high altitudes

Head Teaching Assistant

Aug. 2023 – Present

Drexel University

Philadelphia, PA

- Wrote test cases to grade 500+ student assignments, ensured accurate evaluation and feedback while grading
- Conducted labs to guide students through practical exercises to reinforce concepts and enhance their understanding

PROJECTS

Healthyz | *JavaScript, Node.js, Express, OpenAI, Hugging Face, S3, Supabase* | [GitHub](#)

Sep. 2024

- Deployed and fine-tuned an LLM to streamline patient data collection by asking context-aware, leading questions in telehealth consultations, enhancing diagnostic efficiency; 200+ users
- Integrated OpenAI's Whisper model for multilingual speech support, enabling seamless communication with patients in rural India, where diverse languages are spoken
- Reduced appointment times by 70%, allowing doctors to see up to 10x more patients by automating the initial data-gathering phase, significantly improving healthcare access and response times Demo video

Youdownload | *Python, Selenium, Pytube, React, MongoDB, openai API, Typescript*

May 2024

- Deployed a full stack web app that allows user to download any youtube video, implemented a recommendation system based on user's downloads. 55 users to date
- Leveraged Selenium for web scraping, used GPT-4 for extracting search terms from users description

MakerSpace | *Node, Supabase, React, Google Meet API, Spotify API, Typescript*

June 2024

- Developed a full stack web app using Vercel (cutting deployment time by 80%) that allows people to work together, Philly CodeFest Winner
- Executed auth, live-streaming, a live chat, used Google Meet API to allow screen-sharing, used Spotify API to integrate with user's Spotify account and stream music. 20 users to date