

Muhammad Al-Atrash

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Objective

Computer Science student at the University of Virginia School of Engineering and Applied Sciences specializing in artificial intelligence with a strong interest in music industry innovations and blockchain applications.

Education

University of Virginia, Charlottesville, VA

Bachelors of Science in Computer Science, August 2022 - December 2024

- Selected Coursework: Artificial Intelligence, Mobile Application Development, Cryptocurrency, Cybersecurity, Advanced Software Development, Human-Computer Interaction, Linear Algebra, Probability

Northern Virginia Community College, Annandale, VA

Associates of Science in Engineering, August 2020 - May 2022

- Graduated with Magna Cum Laude Honors
- Member of Phi Theta Kappa

Technical Skills

- Programming Languages: Java | Python | C
- Front-End: React Native | Javascript/TypeScript | HTML/CSS | Django
- Back-End: SQL | Django ORM | JDBC | Node.js | SQLite | Firebase
- Artificial Intelligence: PyTorch | TensorFlow | Generative AI
- Blockchain: Solidity | Web3.js/.py

Experience

Mobile Application Developer, University of Virginia (Academic Project), May 2024 - June 2024

- Led the development of a music distribution app using React Native, managing a team of 2 developers
- Implemented core features of the app in less than 30 days, including user authentication, music playback, and playlist management using TypeScript and Firebase
- Integrated Jamendo API, providing access to over 500,000 tracks

Testing Manager/Software Engineer, University of Virginia (Academic Project), January 2024 - May 2024

- Led the creation of a Continuous Integration (CI) pipeline for a Django-based web application, enhancing bug detection by 30%
- Agile-based collaboration with a team of 4 developers to build an honor code report management website, employing a robust tech stack including Django, PostgreSQL, and Amazon S3

UI/UX Designer, University of Virginia (Academic Project), August 2023 - December 2023

- Collaborated on the design of a Figma high-fidelity prototype for a platform designed to facilitate student connectivity within a large university setting, with 4 other designers
- Led user testing sessions, increasing user satisfaction ratings by 25%

Projects

- Crafted a neural network model to automate music genre classification at 75% accuracy (human benchmark is 70%)
- Deployed DeFi and NFT management Solidity smart contracts on a private Ethereum blockchain network

Extra Curricular Activities

- Social media management for hip hop instrumentals since May 2024 -- achieved 10,000 views on TikTok, 3,000 views on YouTube, and engagement from a rapper with 15,000 followers on TikTok
- 2023 Marine Corps Marathon Participant