DEV AHUJA *(he/him)*

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Education

University of Massachusetts Amherst   August 2020- May 2023

- Bachelor of Science in Computer Science and Mathematics
- GPA: 4.0/4.0
- Recipient of the **Chancellor's Award Scholarship**
- Member of the **Dean's List** for Outstanding Academic Performance (Fall 2020, Spring 2021)
- <u>Relevant Coursework</u>: Java Programming, Programming with Data Structures (Java), Calculus I, II, III, Linear Algebra, Programming Methodology, Reasoning Under Uncertainty, Statistics I, Programming with C, Computer Systems Principles, Discrete Mathematics and Computation, Applications of Machine Learning, Differential Equations, Scientific Computing

Experience

Undergraduate Teaching Assistant- *UMass Amherst Department of Mathematics*   September 2021- December 2021

- Answer questions in class/office hours on topics pertaining to Pre-Calculus and its related applications
- Assist with assignment grading and providing comprehensive ways of solving a problem that minimizes calculation time

Intern- *Net Solutions*   June 2019- July 2019

- Analyzed and optimized Java applications for maximum speed and scalability for a software design and build consultancy
- Conducted and executed unit tests along with learning how to perform code reviews
- Researched basics of workflow application development using Java and related APIs such as GSON

Technical Skills

- **Languages:** Java, Python, JavaScript, C, MATLAB, HTML
- **Frameworks:** Junit, Node.js, scikit-learn, Tensorflow, NumPy, SciPy
- **Software:** Visual Studio Code, Intellij, PyCharm, Android Studio
- **Development Tools:** Git, GitHub, Windows Suite, SSH, SFTP
- **DevOps:** Microsoft Azure

Projects | github.com/devahuja811

South African ID Verifier | *Android Studio, Java*

- Constructed both front and back-end of an Android Application using Android Studio and JUnit
- Given the unique structure of a South African ID Number, the app provides the user with the associated name, date of birth, citizenship status

DevHasData | *JavaScript, Discord.js*

- Microsoft Azure Cloud hosted Discord Bot used by over 300 unique users
- Uses Node-Fetch to access the university directory in order to assist students in accessing information (major, e-mail) about their fellow classmates
- Uses ytdl-core to play music from YouTube when activated in a voice channel
- Able to greet and interact with users using specific commands

DevCoin | *Java, GSON, BounceyCastle*

- Blockchain Model designed to implement a raw cryptocurrency mining and transacting system to depict processes used in cryptography
- Allows users to create a wallet and ensure its safety by generating public and private keys using Elliptic Curve Cryptography
- Allows secure transfer of funds using ECDSA Algorithm to verify signatures

Leadership and Certifications

Vice President of Machine Learning- *UMass Association for Computing Machinery*   November 2020- September 2021

- Worked with a team of officers from freshmen to PhD students
- Organized weekly meetings with a special emphasis on topics for beginners to ML
- Organized monthly ML Hackathons to help facilitate networking of the club with other ML Clubs around the globe

Tech Resilience Programme- *Microsoft*   March 2021- April 2021

- Identified various soft skills required in an ideal work environment in the tech industry
- Discovered applications for such skills when applied to sample problems such as debugging code and putting forth ideas to encounter specific problems presented by the mentor