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|  | | ABOUT ME  Ashlin Darius Govindasamy is currently doing his BSc Computer Science and Mathematics Degree at UNISA. Once completed with that he will go and get a degree in Honors Computer Science and study till masters level. You can read more about him here https://adgstudios.co.za/ | EXPERIENCE   |  |  | | --- | --- | |  | ADGSTUDIOS – Business Owner  Jan 2021 - Present 1 year 10 months  Durban, KwaZulu-Natal, South Africa | | My company which I do ICT consulting, projects, training of company employees, IT Support and computer servicing, and also Software Engineering.Private Contractor for many companies | |  |  |  | | --- | --- | |  | Teach Me 2 – Computer Science , Information Technology Tutor  Apr 2021 - Present 1 year 7 months  Durban, KwaZulu-Natal, South Africa | | Tutoring high school , university students from all over the world. | |  |  |  | | --- | --- | |  | Rahn Consolidated (Pty) ltd – Software Engineering - Contract Work to ADGSTUDIOS  Apr 2021 - Mar 2022 1 year  South Africa | | Helped develop, debugging and polishing Rahn Monitor to get it ready for the market.Wrote RahnAPI - a Python script to pull WooCommerce RestAPI responses clean the responses and publish them into the SQL Database at every millisecond.This helped counter the competitor https://zapier.com/apps/sql-server/integrations/woocommerce. Where they charge R350 per month whereas my script is free you just need to run it on the cloud (in Rahn's cases a Raspberry Pi 4)To make the script run on the Pi 24/7 I had to create an image and run it in Kubernetes and Docker.using a FreeTDS driver to connect to SQL.https://github.com/ADGVLOGS/raspberrypi-pyodbc-docker-imageyou can find the repo here for more information.Website Upgrading for https://rahn.co.za/I added a WooCommerce plugin on the website to add an Account and Cart page and helped register them on PayFast to accept payments for the software.I wrote another application as research for them such as a CV parser. The CV parser uses NLP, Machine Learning to extract the fields in any given CV format - (.png, pdf, .docx, etc) and publishes them into the SQL Database. It's not quite accurate yet has around a 60% accuracy. Fields do get messed up and mixed up.Powered by C# and Python.Training a Rahn Employee to gain various skills such as Practical Networking (Port-forwarding, IPv4 Public and Private, Linux, SSH, Visual Studio Code - Jypyter Notebooks, httpd (Apache), SQL Server Security)Built Rahn Monitor with Raymond (Rahn) helping me with Front End from scratch powered by the ADGSDK. | |  |  |  | | --- | --- | |  | Gaya-Simulations – Software Developer  Mar 2020 - Aug 2020 6 months  Israel | | Gaya Simulations create highly detailed airports and scenery addons for flight simulators - Prepar3D, X-Plane 11 and Microsoft Flight Simulator.Freelancing doing mini coding projects for them in Node.js , C# , Azure , SQL, PhP, HTML5 and JavaScriptCreated Discord Bot to monitor progress in the company.Created a Plane Mod Installer. | |   PUBLICATIONS   |  | | --- | | Arbitrage Betting  Research Gate October 18, 2022 | | This paper produces methodologies and ideas on how to do Arbitrage Betting. Arbitrage Betting is explained from first principles mathematically. Source Code for calculating arbitrage bets is also provided in Python. Pros and Cons of Arbitrage Betting are also discussed. Optimization of Arbitrage Betting is also discussed. Real World problems are solved in this paper. |  |  | | --- | | Using GPLK to solve Mixed Integer Programming (MIP) Linear Optimization Models  Research Gate October 4, 2022 | | This paper is a guide to using the Octave programming language and module (GPLK) to solve linear optimization models. |  |  | | --- | | Evaluating Property Prices in South Africa using Machine Learning  Research Gate September 5, 2022 | | This paper is a real life study and application of how I evaluated/modeled/predicted a home's sale price to be sold in Johannesburg. Methodologies and techniques will be discussed so you can also evaluate your home this way using techniques of Machine Learning |  |  | | --- | | Living life with cryptocurrency  Research Gate August 9, 2022 | | Cryptocurrencies are a new asset class that is not yet widely used in the market. The purpose of this paper is to explore the potential uses of cryptocurrencies in the markets. How we can generate crypto assets and potentially use this currency in the market and in our life? Note this paper is written in a South African context, some of the ideas mentioned in the paper are not applicable to the rest of the world. Different countries have different laws and regulations on the use of cryptocurrencies. I have tested all methodologies in this paper and implemented code to automate my stock market investments. Source Code will not be provided for auto trading bots but resources and manuals will be provided for you to use them, To implement automation of trading. Paper Objectives 1. Introduce the concept of a crypto wallet. 2. Introduce the concept of generating crypto assets by mining (Passive Income). 3. Convert your crypto assets to fiat currency. 4. Taxation laws for cryptocurrency in South Africa. 5. Using cryptocurrency in selected stores without fiat currency. 6. Converting crypto to fiat then using a debit order for stock market investments. |  |  | | --- | | Playing with 3D equations and planes/graphs  Research Gate August 7, 2022 | | This paper is for the purposes of teaching the basics of graphing lines and planes in 3D space; Providing knowledge on how to determine the properties of equations or certain functions. Graphs will be rendered using two software tools code and resources will be provided to use: -Python - (Matplotlib library) -Geogebra - (Online Web Platform) |  |  | | --- | | Getting Started with Complex Numbers  Research Gate August 1, 2022 | | This paper is a guide to getting started with Complex Numbers for the undergraduate level or provides a clearer understanding and appreciation of Abraham de Moivre's Theorem and formulae. |  |  | | --- | | Building Digital Twins  Research Gate June 7, 2022 | | A digital twin is a virtual representation of a physical object that is designed to exactly reflect it. The object under investigation-say, a wind turbine-is equipped with a variety of sensors that monitor various aspects of its operation. These sensors collect data on the energy production, temperature, weather conditions, and other characteristics of the physical object's performance. This information is subsequently sent to a processing machine, where it is applied to a digital copy. Once the virtual model has been given this information, it may be used to run simulations, investigate performance concerns, and suggest improvements, all with the purpose of gaining important insights that can later be applied to the original physical device. In this paper methods of machine learning will be discussed, statistics, forecasting, mathematical equations, real-world examples, and methodology for building digital twins. |  |  | | --- | | GETTING RTSP TO WORK NATIVELY IN THE BROWSER  Asian Journal of Advances in Research June 1, 2022 | | Real-Time Streaming Protocol (RTSP) is an application-level network communication system that transfers real-time data from multimedia to an endpoint device by communicating directly with the server streaming the data. The Real-Time Streaming Protocol (RTSP) is tried-and-true video technology. It's used to control audio/video transmission between two endpoints and facilitate the transportation of low latency streaming content across the internet. Real-Time Streaming Protocol (RTSP) allows you to pull a live video stream from your camera and view it from different devices and programs. Its primary uses are to pull a video feed from a camera to an NVR, viewing software, or even home automation solutions. RTSP is not natively supported in Web Browsers at the time the paper was written. In this paper, I will discuss techniques on how to render RTSP natively in your web browser using only an in HTML (HyperText Markup Language) powered by my platform which hundreds of people use today called OpenRTSP, and an alternative way to build an engine/server like my platform from scratch in detail. |  |  | | --- | | FINDING NFTS (NON-FUNGIABLE TOKENS) USING A  GIVEN ETHEREUM WALLET ADDRESS AN OPEN SEA  STUDY  MB International Media and Publishing House April 6, 2022 | | used to verify ownership of a NFT |  |  | | --- | | Space X Falcon 9 Report  GitHub September 6, 2021 | | My Data Science SpaceX Capstone Project Research Paper to (edX IBM) and for the public to view for interest sake/assist them in doing their Capstone for IBM. It is trending , reached over 3.6k views on GitHub Insights. |  |  | | --- | | Strelitzia Secondary chasing High School Quiz glory  Daily News May 17, 2019 | |  | | | | || EDUCATION   |  |  | | --- | --- | |  | 2022 - 2024  University of South Africa/Universiteit van Suid-Afrika  BSc Mathematics and Computer Science |  |  |  | | --- | --- | |  | 2017 - 2020  Star College Durban  Bachelor's degree pass AP Maths and Information Technology 10,11,12  Activities and Societies: Eskom Project  Did 2 extra special subjects here |  |  |  | | --- | --- | |  | 2016 - 2020  Strelitzia Secondary School  Bachelor's degree pass Maths, Physical Science, English, Afrikaans, Accounting, Life Science, Life Orientation 8 to 12  Activities and Societies: Ambassador Leaders Summit (Harvard University), Switzerland Exchange Program. Eskom Expo.  This is my school which I did my normal 7 subjects excluding the 2 extra subjects I did at Star College Durban. |   LICENCES CERTIFICATIONS   |  |  | | --- | --- | |  | Developing Cloud Applications with Node.js and React  IBM  Issued Mar 2022  Credential ID e664ee3e-c11f-407a-b259-c5ea23a14a5b |  |  |  | | --- | --- | |  | MIT 6.002x Circuits and Electronics 1: Basic Circuit Analysis  MITx on edX  Issued Mar 2022  Credential ID ae207b0af74f4cb69d216080066d884e |  |  |  | | --- | --- | |  | SLP C++ - As Second Programming Language  University of South Africa/Universiteit van Suid-Afrika  Issued Nov 2021 |  |  |  | | --- | --- | |  | Deep Learning Essentials with Keras  IBM  Issued Aug 2021  Credential ID df4bb215-e4ee-430b-82ee-87d4b543c22b |  |  |  | | --- | --- | |  | Containers, Kubernetes, and Container Platforms  IBM  Issued Jul 2021  Credential ID f999b5cca5ec4633bcfcca8667b1d3f6 |  |  |  | | --- | --- | |  | Data Science and Machine Learning Capstone Project  IBM  Issued Jul 2021  Credential ID 20da414efe2243c29fede2a144ecb18a |  |  |  | | --- | --- | |  | Machine Learning with Python  IBM  Issued Jan 2021 |  |  |  | | --- | --- | |  | Python Essentials  IBM  Issued Jan 2021 |  |  |  | | --- | --- | |  | CompTIA A+ ce Certification  CompTIA  Issued Aug 2021 | | | |  | | | |