Teveshan Valaitham

t.valaitham7@gmail.com
+27 (0) 61 483 4485
Durban, KwaZulu-Natal, South Africa
linkedin.com/in/teveshan-valaitham
9903085403083
Code B Driver's License
github.com/teveshanV
teveshanv.github.io/portfolio/

PROFILE

A BSc (Honours) graduate aiming to secure a challenging role as a software engineer where I can utilize my strong technical background in electrical engineering and my passion for programming to contribute to the development of innovative software solutions. Despite my lack of professional experience, I am eager to apply my knowledge and skills to make a meaningful impact in the industry.

EDUCATION

The University of Kwa-Zulu Natal | Durban, South Africa ***2017 – 2023***
Bachelor of Science (Honours) in Electrical Engineering.
Grade: 60%.
Key Modules: Electrical Principles, Computer Methods, Engineering Mathematics, Embedded Systems, and Digital Systems.
Dissertation: Design and Simulation of a Micro-turbine power generation system.

Mountview Secondary School | Verulam, South Africa ***2012 – 2016***
Bachelor's Pass (4 A's). *2016*
Subjects: Mathematics (86%), Information Technology (92%), Accounting (92%), English (77%), Life Orientation (87%), Physical Sciences (71%), and Afrikaans (37%).

ACHIEVEMENTS

- 2x winner of the Thebe Foundation Scholarship Fund (2020 and 2021).
- freeCodeCamp Graduate –
    a) JavaScript Algorithms & Data Structures - 2023.
    b) Responsive Web Design: HTML & CSS - 2023.
- Shantik Foundation Skills Development Graduate (Electrical) - 2023.
- Mountview Secondary class RCL.
- "A" aggregate achievement in Matric.

SKILLS

Languages: English (native), Zulu (elementary), and Tamil (elementary).
Microsoft Office: Proficient in Word, PowerPoint, Excel, and Outlook.
Software Development: Proficient in Java, C, C#, .NET Framework, Python, SQL, MATLAB, JavaScript, HTML and CSS. Familiar with Assembly. Experienced in object-oriented programming (OOP), data structures and algorithms.
Other: Visual Studio Code, microcontroller programming, embedded systems, system modelling, lightroom, NetBeans, PyCharm, Atmel Studio, MATLAB/Simulink, MS SQL Studio, and technical drawing in AutoCAD.

SOFTWARE PROJECTS

- Pharmacy, Car Rental, and Music store projects built in NetBeans using Java and a database. Utilised OOP, SQL, and a graphical user interface to complete various tasks such as storing/modifying/deleting users and staff members, creating receipts, generating pie charts and graphs, and using accounting equations to determine if the business is running a profit or a loss.
- Created a multi-meter that is able to measure current, voltage, resistance, and power by creating an embedded system using an Arduino microcontroller coded with C++.
- Ping-pong game, live number of students currently in a classroom, light pattern, and an intrusion alert system was made using Assembly and a microcontroller (ATmega-32).
- Designed and developed a micro-turbine power system capable of powering a small office using MATLAB/Simulink in either stand-alone mode or hybrid (in tandem with grid power to save on energy costs).
- Developed apps using HTML, CSS, and JavaScript – Space Invaders, Weather app (using the OpenWeather API), tic-tac-toe game, recipe website, to-do list, and random quote generator.

VOLUNTEER WORK

- Thebe Foundation spokesperson.
- Annual local Diwali hamper drive.
- Social upliftment, Walk for Values.
- Social upliftment, free programming lessons to the neighbourhood.

HOBBIES

- Developing apps. I enjoy developing software applications for desktop platforms that are available to view on my portfolio website.
- Weekly indoor football. Playing indoor football has helped me develop skills such as teamwork, communication, and leadership.
- Photography. I enjoy taking photographs in my free time, particularly landscapes and portraits.
- Writing short stories. My preferred genres are science fiction and fantasy, and I have participated in online writing communities to receive feedback and improve my skills.