Haydn Diniz

Sheffield, United Kingdom

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Personal Profile

Proactive Software Developer with a deep interest in technology and engineering, specializing in IoT, smart infrastructure, and Digital transformation. Proven experience delivering high-quality projects while adhering to budget and timeline constraints. Skilled in communicating complex technical concepts clearly and concisely.

Education

University of Sheffield
Sheffield, UK

BSc in Computer Science
Sept 2019 - June 2022

- First-Class Honours
- Awards: Software Hut Client Prize 2021
- Teaching Assistant for 6 modules and Academic Rep
- International Engineering Ambassador
- Dissertation in PWA development for Property Management and BIM
- **Courses:** Data Science, Robotics, Machine Learning, Adaptive Intelligence, Software Development, Text and Speech Processing, Algorithms and Data Structures

University of Leicester
Leicester, UK

CertHE in Aerospace Engineering
Sept 2018 - June 2019

- **Courses:** CAD Design and Manufacture, Mathematics, Electronic design and testing

Aga Khan Academy Nairobi, Kenya
Nairobi, Kenya

International Baccalaureate
September 2016 - July 2018

- Completed the Leadership Program by raising 900,000KSH to build a greenhouse and irrigation system for a charity project

Work Experience

Siemens
Sheffield, UK

Digital Engineering Intern
Sept 2022 - Present

- Recruited, trained and supervised 24 student volunteers in the DIZ to assist in teaching users and local business about Siemens technologies and use cases
- Audited and administered the University of Sheffield MindSphere account to reduce excess spending by 16%.
- Developed Siemens technology demos and launched the Digital Innovation Zone (DIZ) at the University of Sheffield.
- Developed and implemented documentation, policies and systems to ensure the smooth running of the DIZ now and in the future
- Collaborated with industry partners to develop technology demo and create a deployment plan for their product using MindSphere and proprietary IoT devices.
- collaborated with interns on the Intern Development Program and delivered a project on 'The future of recruitment'
- Featured in Siemens Global newsletter for innovation and nominated for the Wilhelm Von Siemens Award.
- **Technical Skills:** MindSphere IIOT, CAD Design and Simulation, Digital Twin development, low-code programming (Mendix), 3D scanning
- **Soft Skills:** Leadership, Teamwork, Time Management, Communication, Presentation skills.

University of Sheffield
Sheffield, UK

IT Summer Intern
July 2022 - August 2022

- Collaborated with the University IT team to successfully deploy over 300 computers across campus, ensuring timely and efficient completion of the project.
- Proactively identified and resolved issues with existing systems through effective troubleshooting and diagnostics, resulting in improved performance and functionality.
- Applied advanced knowledge of group policies to configure custom departmental requests, enhancing user experience and streamlining processes.
- **Technical Skills:** BIOS configuration, Linux terminal, Group Policy and MDM
- **Soft Skills:** Leadership, Problem Solving, Time Management, Team Work, Logical Thinking.

iForge Makerspace
Sheffield, UK

Head of Logistics and iForge Rep
September 2021 - August 2022

- Led a team of 5 students and coordinated with department heads to procure stock, optimize inventory levels, and uphold safety standards, ensuring a consistently usable workspace.
- Implemented an innovative inventory and asset management system that enabled future expansion and improved operational efficiency.
- Volunteered weekly to train students on a range of equipment and techniques, fostering an environment of learning and innovation.
- Trained other iForge reps on how to use and maintain equipment to ensure a safe working environment.
- Advocated and promoted iForge to industry partners and potential university applicants during open days.
- **Technical Skills:** CAD Design, Laser Cutting, Python, JavaScript, additive manufacture, CNC milling, product Design
- **Soft Skills:** Leadership, Problem Solving, Time Management, Team Work, negotiation, adaptability and interpersonal

Techmind Technology Ltd   *Nairobi, Kenya*
Intern   *June 2019 - August 2019*

- Achieved certification as a Palo Alto Network Systems Engineer, demonstrating expertise in designing and implementing secure network solutions.
- Worked closely with a development team to create a billing solution for WiFi usage at the United Nations Office (UNON) in Nairobi, utilising Cisco Identity and Access Management and device profiling technologies.
- Participated in the inaugural AWS reStart program in Nairobi, gaining valuable knowledge and practical experience in migrating legacy systems to the cloud. Collaborated with local businesses to identify best practices and develop strategies for successful digital transformation.
- **Technical Skills:** Network Design and Analysis, Cisco IAM and Device Profiling
- **Soft Skills:** Problem Solving, Time Management, Team Work, negotiation, communication, adaptability

Projects

Design and Implementation of sustainable smart home solutions   *sheffield, UK*
                                                                              Aug 2018 - Present

- Conceptual design of sustainable and long lasting utility systems
- Idealization and creation of smart IOT devices(ESP32 and raspberryPi) to automate systems
- Network design with cyber security principles
- Long Term Cost analysis on implementation cost vs savings
- **Technical Skills:** CAD Design, 3D Printing, python, docker, HomeAssistant,
- **Soft Skills:** research and documentation

Skills

Programming	Python (Pandas, PyTorch, NumPy, Scikit-learn. etc.), Ruby on Rails, Haskell, HTML/CSS, JavaScript(nodejs, react, micro services), CI/CD, Databases(SQL, MongoDB, PostGres, Cassandra.
Miscellaneous	Linux, Shell (Bash/Zsh), LaTeX(Overleaf/R Markdown), Tableau, Microsoft Office, Firebase, Git, group policy and MDM
Soft Skills	Leadership, Time Management, Teamwork, Problem-solving, Documentation, Engaging Presentation.

Certifications and Awards

2023	**IBM,** IBM MQ Developer Essentials	
2022	**Mendix,** Mendix Rapid Developer	
2022	**Mendix,** Mendix Rapid Developer	
2021	**CAA,** Remote Pilot License	
2022	**DVSA,** Vehicle Driving License CAT B	*UK*
2018	**NTSA,** Vehicle Driving License CAT B	*Kenya*
2019	**Google,** Fundamentals of Digital Marketing	
2019	**Palo Alto,** Palo Alto Networks Accredited Systems Engineer	

Interests

IoT and Automation	I have a keen eye on IoT and integration with smart homes, I have designed and built IoT devices to use with HomeAssistant
Crypto and Investment	Since 2018, I have been following the crypto industry, I built my own PC to mine the Ethereum blockchain and developed an algorithm to trade through the Binance API
Photography	I have regularly photograph wildlife and landscapes which prompted me to take up video creation and editing. I created a short film about Digital Piracy that won 2nd place in a WIPO film Competition. I have also invested in a remote pilot license to fly photography drones.
Sports	I swim, windsurf, climb, play hockey and football. I competed in the Gothia Cup in Sweden in 2009. I recently started windsurfing whilst at university and I competed in BUCS

Languages

English	Native proficiency
Spanish	intermediate proficiency

References available upon request.