HECTOR CHUKWUEMEKA OBIAZI

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Software Engineering graduate with strong technical and problem-solving skills, experienced in developing software solutions and working with IoT-based systems and circuit simulation. Skilled in coding, debugging, and technical documentation, with hands-on experience applying engineering principles to real-world challenges. Graduated top of the class with High Honours, demonstrating both academic excellence and practical expertise in building reliable and efficient software solutions.

EDUCATION

Bachelor of Science in Software Engineering

Cyprus International University, Nicosia, TRNC | Sep 2021 – Jun 2025

- Graduated with High Honours | CGPA: **3.50 / 4.00**
- Final Year Project: Steganographic *Key Management System for IOT Networks*
- Relevant Coursework: Artificial Intelligence & Machine Learning, Object-Oriented Programming (OOP), Web & Mobile Application Development,Operating Systems, Data Structures & Algorithms
- Member, Software Engineering Student Council.

High School Diploma

***Bishop Okoye Spiritan Secondary School** , Rivers State, Nigeria* | Sep 2014 – Oct 2020

- Class Representative (Sep 2017 – Jun 2018)

SCHOLARSHIPS AND AWARDS

- **TRNC Ministry of Education Scholarship**, 2023–2025 — Monthly stipend for high-performing international students
- **100% Tuition Waiver**, Cyprus International University, 2023–2025

PROJECTS

Undergraduate Final Project:

Cyprus International University, Nicosia, TRNC | Jan 2025 – May 2025
Topic: Steganographic Key Management System for IOT Networks

- Designed and implemented a steganography-based key management system to secure data exchange in IoT environments.
- Developed algorithms for embedding 256-bit cryptographic keys into digital images without degrading performance.
- Simulated secure key distribution over MQTT using Node-RED and IoT devices.
- Applied principles of network security, cryptography, and information hiding to enhance IoT data protection.
- Gained hands-on experience in software development, IoT protocols, and cybersecurity for real-world applications.

Undergraduate Projects:

Cyprus International University, Nicosia, TRNC | Sept 2022 – Jan 2023
Topic: E-commerce website for Meals and a Booking trip website

- Designed and developed a full-stack e-commerce website for buying and selling food items, enabling vendors to list products, customers to browse, order, and make secure payments.
- Built a vacation booking and management website that allows users to search destinations, plan trips, and make reservations with ease.
- Implemented user authentication, database integration, and responsive interfaces for both platforms to ensure accessibility across devices.
- Applied principles of web development, UI/UX design, and database management to deliver user-friendly and scalable solutions.
- Gained hands-on experience with modern web technologies, front-end and back-end development, and deployment of real-world applications.

Topic: CPU Scheduler Processes Project

- Designed and implemented a CPU scheduling program to simulate different scheduling algorithms, including First Come First Serve (FCFS), Shortest Job Next (SJN), Priority Scheduling, and Round Robin.
- Developed logic to calculate waiting time, turnaround time, and CPU utilization for multiple processes.
- Simulated process execution to compare performance metrics across algorithms.
- Applied core concepts of Operating Systems, process management, and scheduling policies to create an educational and practical tool.
- Built strong problem-solving and programming skills by implementing low-level process handling and scheduling logic.

EXPERIENCE

Software Engineering Summer Intern

Ethnos Cybersecurity Ltd, Victoria Island, Lagos, Nigeria | July, 2024 – Aug, 2024

- Developed a secure real estate software platform for locating and securing houses in Nigeria.
- Designed and implemented features for property search, filtering, and down payment/booking options.
- Integrated secure development practices to protect user data and transactions.
- Tested and optimized the platform for usability, reliability, and performance.
- Gained hands-on experience in DevSecOps, software security, and user-centered application design.

CERTIFICATIONS AND TRAINING

Flutter & Dart Essentials - Build Mobile Apps like a Pro (with Certification)
Udemy|October 2024 — 49.5 total hours intensive program

- Dart Programming Language: I learned the fundamentals of Dart, Flutter's programming language, including syntax, data types, control structures, and functions.

- Flutter Basics: I was introduced to core Flutter concepts such as widgets, state management, and navigation, which helped me understand the structure of a Flutter application.

- UI Design & Animation: I explored Flutter's widget-based design approach, developing visually appealing user interfaces and adding animations to enhance the overall user experience.

- Networking & Data Handling: I learned how to fetch, display, and manage data from APIs and databases, which is crucial for building dynamic and interactive mobile applications.

- Firebase Integration: I gained experience integrating Firebase for backend services, including authentication, storage, and database management, which are essential for creating fully functional apps.

- Debugging & Optimization: I practiced debugging and optimization techniques, learning best practices to improve app performance and ensure a smooth and responsive user experience.

SKILLS

Software Skills

- Data Entry, Data analysis, Agile Methodologies

- SDLC, Scrum, Debugging & Testing,System Design

- Web Development, Mobile App Development, Networking basics

- Software Development, Database & SQL, Cryptography, Project Management

- Graphic design, Video Editing, Internet Marketing

Software & Technical Tools

- MATLAB, Dev C++, Node.js, Postman

- MS Excel, Google Sheets, MS PowerPoint, MS Word

- Adobe Photoshop, Adobe AfterEffects, Abode Premier Pro

- Vscode, Intellij, Android-Studio, Visual Studio, MySQL

- linux(Ubuntu), Firebase, Xampp, Figma, Github, Git

Programming Languages

- C, C++, Java, Html, Css, Python

- Javascript, PHP, Flutter, Dart, C#, SQL, React.js

Soft & Transferable Skills

- Advanced written and verbal communication

- Time management and multitasking

- People management, public speaking, and mentoring

- High attention to detail and strong work ethic

Languages

- English (Native), Greek (A1), French (A2), Turkish (A1)

ADDITIONAL EXPERIENCE

Media Administrator (Head) - BLW CIU
Loveworld Incorporated, Nicosia, TRNC | Oct 2022 – Present

- Write, design, or produce media materials (articles, photos, videos, graphics).
- Publicize events, meetings, or activities that the chapter is hosting or participating in.
- Create promotional materials such as flyer, posters, and event invites.
- Work with other chapter members to ensure media efforts align with ongoing projects.
- Utilize advanced financial software and tools to enhance data management efficiency and accuracy.
- Coordinate with other team members or external entities to ensure the event reaches the target audience.
- Coordinate with leadership to understand their media needs and meet expectations.
- Coordinates pictures and videos taken during chapter events and programs and ensures proper coalition of this media engagements.

Multi-departmental Head and Cell leader - BLW CIU
Loveworld Incorporated, Nicosia, TRNC | Oct 2022 – Present

- Spearhead and oversee operations of multiple critical departments, ensuring seamless coordination and synergy between diverse functional areas.
- Organized and led regular cell meetings, creating a space for discussion, prayer, and personal development.
- Drive strategic initiatives and manage a cross-functional team, enhancing productivity and operational efficiency across the organization.
- Helped nurture new leaders within the cell, organizing training sessions, and empowering members to take on responsibilities within the group.
- Encouraged members to participate in outreach and community service activities, promoting collective involvement in social causes.
- Develop and implement comprehensive policies and procedures to optimize departmental workflows and achieve organizational goals.
- Ensured consistent engagement with members through follow-up, fostering a sense of community and ensuring that individuals felt supported.