

# HECTOR CHUKWUEMEKA OBIASI

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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 class with High Honours, demonstrating both academic excellence and practical expertise in building reliable and efficient software solutions.

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## EDUCATION

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### 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)

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## SCHOLARSHIPS AND AWARDS

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

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## PROJECTS

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### 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.

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## EXPERIENCE

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### 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.

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## CERTIFICATIONS AND TRAINING

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### 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.

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## SKILLS

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### Software Skills

- Data Entry, Agile Methodologies.
- SDLC, Scrum.
- Web Development, Mobile App Development.
- Software Development

### Software & Technical Tools

- Python, MATLAB, NI Multisim, Dev C++
- Microsoft Excel, Google Sheets, PowerPoint, Word
- Vscode, IntelliJ, Android-Studio, Visual Studio..
- linux(Ubuntu), Firebase, Xampp, Figma, Github, Git

### Programming Languages

- C, C++, Java, Html, Css
- 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)

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## ADDITIONAL EXPERIENCE

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### 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.