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Harvey Apivor

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EDUCATION

University Of Sussex

First Class Bachelor of Computer Science and Artificial Intelligence

Brighton and Hove, UK

Sept. 2022 – July 2025

BHASVIC College

Computer Science, Maths and Chemistry

Brighton and Hove, UK

Sept. 2020 – May 2022

PROFESSIONAL EXPERIENCE

Software Developer

June 2018 – 2020

Red Eye Solutions

- Built a proprietary C++ utility tool from scratch under urgent conditions, preserving business continuity and customer retention following the departure of the sole developer
- Developed layered defences including encryption, obfuscation, and runtime protection to mitigate reverse engineering threats and uphold software integrity in hostile environments
- Managed continuous updates to address frequent dependency shifts, quickly resolving reported issues and shipping rich feature updates with minimal downtime

Freelance Web Developer

May 2024 – July 2025

ITPCoaching and JumpTheGun

UK and USA

- Increased website visits by 7X using SEO optimisation and fully remade a professional website for business consulting
- Developed custom Shopify themes for existing business to solidify brand identity
- Worked to take customer vision from paper to reality

PROJECTS

AI Biometric Mobile Authentication Dissertation | *Python, Flask, Javascript, HTML* Sept. 2024 – June 2025

- Developed and tested an innovative biometric user authentication AI for mobile phones
- 99.5 percent accuracy of authentication, an innovation in the field of mobile security without additional hardware
- Utilised machine learning to create biometric profiles based on users mechanical, cognitive and physical behaviours
- Modern front-end and back-end web-app development using glassmorphic styling to collect and process data

Secure Auctions Website | *Javascript, HTML, Bootstrap, PHP, mySQL*

Jan. 2025

- Developed a secure auctions website designed specifically to withstand exploitation
- Successfully tested against SQL Injection, XSS, Brute Force, File Inclusion attack, Dictionary Attacks, DDOS
- Implemented mobile 2FA, CAPTCHA, Email verification, Image encryption, IP Bans, Hashing, HTTPS
- Implemented user signup, administrator panels, account deletion and password reset via tokenized systems
- Sleek, modern, user friendly design using a glassmorphic approach

BLANC Tools | *C++, HTML, Javascript, Databases*

Jan. 2018

- Maintained full suite of custom software tools with subscription modelling
- Achieved a userbase of 400+ users with promotion via Youtube Creators and £5000 revenue
- Implemented polymorphic user-builds, obfuscation of proprietary code ensuring individual security
- Real-time C++ to web-server communication for continuous user authentication and subscription monitoring

EdgeAim AI Object Detection Assistant | *C++, OpenAI, NVIDIA*

Jul. 2021

- Trained real-time object detection algorithms to detect player positions in games
- Utilised vulnerable mouse drivers to simulate mouse movement
- Created large datasets of labelled images for multiple games used for training

TECHNICAL SKILLS

Languages: Modern C/C++, Javascript, Python, SQL, PHP, HTML/CSS, Assembly

Frameworks: React, Node.js, Flask, Bootstrap, Pytorch, Windows Kernel

Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ

Skills: Project Management, Cyber Security, UI Design, Customer Consulting, Project Planning