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I am a full-stack software engineer with experience across the Academic, Real Estate, E-commerce and PayTech sectors. I specialize in event-driven systems, work with .NET microservices in Azure, and use React for front-end development.

Employment

Senior Software Engineer at ASOS.com, Birmingham (Hybrid)

Jun 2022 – Present

Delivering features to high-throughput, high-availability PayTech systems serving millions of customers worldwide. I focus on backend services orchestrating and processing secure payment and refund flows covering Cards, PayPal, Braintree, Klarna, AfterPay and others. I undergo annual PCI DSS compliance training to ensure secure handling of cardholder data.

Projects and roles

- Instrumental in integrating Checkout.com as an alternative card gateway, strengthening resilience and cash-flow diversification.
- Built thoroughly tested, scalable payment and refund processing systems.
- Led a novel, end-to-end performance-testing approach for asynchronous endpoints.
- Active member of the Monitoring and Observability committee and Security Code of Practice.
- Assessment and recruitment of new engineering candidates.

Technologies and practices

- .NET, React, TypeScript, Docker, Kubernetes, Traefik, Azure, Cosmos DB, SQL
- CI/CD, TDD/BDD, PCI DSS, modern cyber security practices and encryption standards

Full Stack Engineer at Boomin.com, Birmingham (Remote)

Jul 2021 – Jun 2022

Working with cutting-edge tech in a microservices and micro frontends environment, I was involved in the development and optimization of key business products for renters, buyers, landlords and estate agents.

Projects and roles

- Automated and bespoke property valuations, Appointment Scheduling, User Authentication, Utility Services (Life Insurance, Broadband, Gas, Electric), Google Analytics.
- Cyber security guild representative.

Technologies and practices

- .NET, React, TypeScript, Docker, Kubernetes, Azure, Traefik, Cosmos DB
- Heavy focus on SEO, Accessibility, Core Web Vitals and BDD/TDD on both front-end and back-end, including Unit and PACT testing.

Full Stack Developer at University College Birmingham, Birmingham

Jan 2016 – Jul 2021

Developed data-driven software solutions for staff and FE/HE students. I have successfully delivered dozens of full-life-cycle projects, both undertaken individually and as part of a team.

Projects and roles

- Development of key internal systems for several departments and processes, including Admissions, Finance, Accommodation, Timetabling, Reprographics, Immigration Compliance and Enrollment.
- Collaborated and developed external integrations for the UK Department for Education, QLS, Canvas, Data Harvesting and others.

Graduate Software Developer at EDM Group UK, Wolverhampton

Sep 2015 – Dec 2016

Developed, maintained and remediated systems for large scale internal use, as well as for high-profile clients such as AVIS Budget Group, Mercedes, Lloyd's Banking Group and several NHS Hospital Trusts.

Projects and roles

- HR systems, Ticketing systems and Document/Shipment/Bureau Tracking software
- Intranet master, development of APIs for 3rd party consumers
- Developed Metastorm BPM 7 & 9 Solution Comparison Tool

Personal and collaborative projects

DavidHugh Cambridge - Experience Lab (private BitBucket repository)

2021

<https://www.davidhugh.com>

Measurement of brainwave activity while experiencing the DavidHugh Elysium Weightless Chair.

- Developed an API for analysis and conversion of raw EEG signals to Bandpower data (Python 3)
- Replaced existing implementation, rectified PDF reports and graphs (React 16)

Non-public projects from previous years are omitted for brevity and can be provided on request. Public FOSS projects can be found on my GitHub page: <https://github.com/alexcodito>

Education

Computer Science (BSc), Aston University

2012 – 2015

Modules include: Data Mining, Information Security, Image and Video Processing, Testing and Reliable Software Engineering, Software Project Management, Multimedia Information Retrieval

Final Year Project: Proof-of-concept Remote Access Trojan (RAT) in C++, C# and Python

Pancyprrian Gymnasium, Cyprus

2006 – 2009

High School Transcript (Advanced Modules): Business Management (17/20), Computing (20/20), IT Networking (20/20), Typography (20/20), Philosophy (18/20)

Additional Qualifications

- Toshiba Certified Engineer (2011)
- Cisco Certification – CCNA 1 & 2 (2009)
- Fluent in English, Greek, Cypriot and Russian
- Emergency First Aid at Work (RQF) Level 3 certification

Interests

I frequently jog, hike, visit the gym and climb at indoor bouldering centers. I also travel to other countries as often as possible to experience different cultures and learn about other ways of living. Attending hackathons is one of my favourite ways to socialize and tackle fun challenges. On rainy days, I spend my time reverse engineering software and performing malware analysis.

References

ASOS – PX Hub	pxhub@asos.com
Boomin – Head of People	linkedin.com/in/stuart-perkins9
Boomin – Engineering Manager	linkedin.com/in/adam-haycock-birmingham
University College Birmingham – HR	recruitment@ucb.ac.uk

Additional references are available on request.