

## EXPERIENCE

## Software Engineer – Jaguar Land Rover (Current)

September 2023 - Present

- Developed and maintained a server-side automation program using ExpressJS and Power Automate, and front-facing interface using React to reduce administrative tasks by 45%.
- Constructed CAN and LIN network communications between Arduinos using C++ to simulate module communication within vehicles.

## Software Engineer Intern – Coveo

June 2023 – September 2023

- Built custom product demos for clients such as Porsche using React and TypeScript to demonstrate generative AI features.
- Utilised Coveo ML in product demos to power relevance searching capabilities, query suggestions, facet management, pagination, and recommendations each uniquely tailored to client requirements.
- Redesigned and refactored for demo environment to embed updated headless UI components, cutting down development to production transition time by over 60%.

## NFT Marketplace Internship Project – Frontend Simplified

December 2022

- Transformed a static page into an interactive UI, processing API requests to dynamically fetch data, skeleton loading states, pagination, dynamic routing, as well as utilising Git version control to simulate a virtual, collaborative environment.

## Frontend Development Ambassador

September 2022 – February 2023

- Supported a community of 1,000+ students learning HTML, CSS, JavaScript, and React best practices.
- Simplifying difficult programming frontend concepts for new learners such as responsiveness, CSS Layout, Promises, Async function, API requests

## PROGRAMMING PROJECTS

## FakeStore (E-Commerce Site) – React.JS, HTML, CSS, JavaScript

- Developed an extensive E-Commerce site using React with responsive and interactive design for landing page, browse page, product page and basket page
- Used local JSON file to mimic API data fetching

## Song Downloader (Terminal Application) – Python ( + pytube)

- Built a terminal application to extract user playlist data from Spotify and downloads songs locally
- Utilises Spotify API with OAuth2 authentication and YouTube API

## King's Certificate: Improving the Online Shopping User Experience (UX) – HTML, Bootstrap, C#

- Developed an impression online shopping service using .NET in a collaborative environment based on client requirements.
- Implemented frontend development, pagination, and dynamic navigation as well as web scraper program in Python to fetch data.
- Incorporated concepts on user psychology, customer centricity, and responsive design from prior research on the project

## National University of Singapore High-School: Hackathon 2020 (U-Receipts) – HTML, Bootstrap/CSS, C#, SQ

- Led and developed a receipts-storing web application using .NET framework with database storing in SQL
- Implemented frontend design for landing page, dashboard, and information display pages while also assisted in backend development
- Worked under 24-hour time restriction and in a collaborative setting

## EPQ: Designing and Making the 'Perfect' Game – C#, Unity, Amazon Web Services (AWS)

- Constructed and documented the development of a prototype first-person shooter using Unity and C#
- Established integrated multiplayer functionality using a client-server architecture hosted on Linux server
- Implemented popular first-person mechanics including wall-running, mantling and parkour stunting

## EDUCATION

## King's College London | Undergraduate (Current)

September 2022 - Present

- Bachelor of Science (Hons) in Computer Science

## Imperial College London | Software Engineering Bootcamp

September 2022 – January 2023

## King's College London Mathematics School | A-Levels

September 2020 - August

- Mathematics – A\*, Further Mathematics – A\*, Physics – A\*, EPQ – A, AS Computer Science – A
- NUSH Hackathon – 2<sup>nd</sup>, British Informatics Olympiad, Senior Maths Challenge – GOLD, Senior Kangaroo Maths Challenge, King's Certificate – Distinction, BPho Senior Physics Challenge, Bebras Computing Challenge

## SKILLS

Technical Skills: React, Python, C++, Next.js, NodeJS, TypeScript &amp; JavaScript, Java, MySQL, Scala

Soft Skills: Passionate learner, Communicator, Problem-Solver, Analytical, Attention to Detail, Adaptability, Agile, SCRUM

## CERTIFICATIONS

- Coveo Level Up – Platform Developer, Commerce Core Developer

References available upon request