

DEV CHHATBAR

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Technical Skills

Front-End: React, Next JS, Angular, Node, JavaScript, TypeScript, PHP, MUI.

Back-End: Java, Python, Swift, SQL, NoSQL, Express, AWS Amplify, AWS DataStore, OAuth, REST.

Testing / Deployment: Heroku, Cypress, Render, Cloudflare, Netlify.

Developer Tools: Docker, Git, npm, MongoDB Compass, Aspera, Trello, Slack, Kanban, Notion, XCode, AWS, Google Cloud.

Miscellaneous: Linux, Wireshark, Kubernetes, Postman, VMware, VirtualBox.

Projects & Experience

The Arusha News | *Software Engineer*

London, United Kingdom (August 2024 - Present)

[React](#) | [NodeJS](#) | [Express](#) | [CSS](#) | [AWS Amplify & DataStore](#) | [TypeScript](#)

- Developed a fully functional Online News Magazine for a weekly gazette in Arusha, Tanzania, using React, Node.js, Express, and AWS Amplify for scalable hosting and traffic management, delivered within a two-week timeframe.
- Implemented features for article viewing, user commenting, author authentication, and content management, utilizing TypeScript and CSS, with a tagging system to enhance content filtering and user engagement.
- Integrated a secure payment gateway for future monetization and leveraged AWS DataStore for efficient data management, including automatic generation and use of UUIDs for unique article identification and structured URL routing, enhancing database integrity and content retrieval.

DermSpectrum | *Software Developer*

Cardiff, Wales (October 2023 – March 2024)

[React](#) | [NodeJS](#) | [Express](#) | [MongoDB](#) | [WordPress](#)

- Collaborated with 6 medical students from Bristol University to develop their complete online presence for a platform aimed at helping people of all skin colors identify skin-related diseases using React, Node.js, TypeScript, Express, and MongoDB.
- Designed and implemented both the front-end and back-end, integrating a database to store images from diverse populations to improve disease identification accuracy.
- Secured initial funding of £4,500 to kickstart the project, with ongoing efforts to obtain additional funding for further development and expansion.

Koala Bot | *Software Developer*

Cardiff, Wales (July 2022 – Dec 2023)

[Python](#) | [React](#)

- Collaborated with a team of developers from various UK universities to create a Python-based Discord bot, featuring a React-based intuitive dashboard that significantly simplified administrative settings management and streamlined student verification processes.
- Contributed to the backend team, developing robust administrative functionalities, and integrating student verification features using Python, which enhanced the bot's efficiency and user management capabilities.

Cardiff University | *Cyber Security Advisor & Developer*

Cardiff, Wales (August 2022 – September 2022)

[Java](#) | [SQL](#) | [JavaScript](#) | [CSS](#) | [NodeJS](#)

- Developed and Implemented code for prototype of a web-based cyber security advice and recommendation system for Small and Medium sized Enterprises (SME), based on the Reference Model of Information Assurance Systems, under Dr. Yulia Cherdantseva at Cardiff University.
- Analyzed and synthesized knowledge from the Cyber Security Community, contributing to the enhancement of my field expertise.
- Developed proficiency in Java Programming Language, acquiring advanced skills in databased design and development, procedural SQL, and web application security. Contributed to the successful launch of the product by writing over 15,000 lines of Java code.

Forteco LTD | *Founder/CEO*

Wembley, London (November 2019 - April 2020)

[Swift](#) | [React](#) | [NodeJS](#) | [Express](#) | [MongoDB](#) | [TypeScript](#) | [JavaScript](#) | [CSS](#)

- Bootstrapped the company with £1500 and developed the customer database to 29 people within 2.5 months.
- Built an infrastructure which allowed people to easily access Engineers/Technicians in a short amount of time to solve their home problems (Approx. within 1-2 hours of job requests).
- Developed independent employment platform for Engineers/Technicians, connecting them directly with customers. Provided free access during initial phase, securing runway till April. Unfortunately, had to close due to COVID-19, prioritizing safety of all parties involved.
- Convinced engineers to come onboard and assisted them in increasing their jobs based on their weekly average.
- Consecutively implemented an initial setup of a database and an internet website application. Single handedly developed a mobile based iOS app using Swift and the prototype was in working condition before final publish.

Education

Cardiff University | *BSc Computer Science (Hons) – achv'd 2:1*

Cardiff, Wales (September 2020– June 2024)

Modules Including: Object Oriented Programming, Scientific Computing, Communication Networks, Informatics, Intro to Theory of Computation, Graphics, Forensics, Knowledge Management and Political Economies of Computing.

Projects:

- Developed a fully functioning Web Application which involved making a Stock Trading platform that allows you to easily buy and sell shares in any company around the World. Also developed an IOT project which involves fully designing and producing a 3D based model of a Pet Feeder. This Pet Feeder allows you to monitor external features such as Temperature and Humidity and go on to ensure optimal pet nutrition by implementing safety measures, enabling food to be only dispensed under ideal conditions.
- For my Final Year Project, I was rendering and processing MRI Images using Python and Google Colab on a Raspberry Pi under the supervision of Dr. Paddy Slator. Since there's been an increase in demand from Lower & Middle-Income countries, my goal was to democratize its access by ensuring universal availability of its benefits.

[References Available on Request.](#)