

Harun Tontus

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EDUCATION

Swansea University

Bachelor of Science in Computer Science

• **Graduated with First Class Honours**

• **Key Modules & Achievements:**

- **Web Service Development (82%):** Designed and developed RESTful APIs using Spring Boot.
- **App Development (84%):** Developed android applications using Kotlin.
- **Algorithms (75%):** Strong understanding of algorithmic complexity and optimization.
- **Database Systems (72%):** Experience with MySQL and database normalization techniques.
- **Data Science Project (94%):** Developed a machine learning model using Random Forest classifiers.
- **Machine Learning Assignment (99%):** Conducted a CIFAR-100 image classification project using CNN and SVM.

Swansea, Wales

Sept. 2022 – July 2025

Bassaleg Secondary School

A Levels: A ICT, B Biology, B Chemistry*

GCSEs: A ICT, A History, A Biology, B Chemistry, B Physics, B Maths, B English, B Business Studies

Newport, Wales

EXPERIENCE

Festive Colleague

Tesco Retail Store

- Provided high-quality customer service in a fast-paced environment
- Worked collaboratively to solve operational inefficiencies, improving store performance
- Developed strong problem-solving, teamwork, and communication skills

Winter 2021

Risca, Wales

Website Designer

Ace Language Services

- Designed and developed a responsive landing page using HTML, CSS, and JavaScript
- Deployed using Netlify and configured DNS for the client's domain
- Implemented SEO strategies to enhance search engine visibility and user reach
- Built functional contact forms and interactive elements to improve client engagement
- Collaborated with stakeholders to refine website features and optimise user experience

May 2025 - August 2025

Newport, Wales

PROJECTS

MKWorld Lounge Stats Dashboard | *React, Node.js, REST APIs, Vitest*

December 2025 – Present

- Built a web dashboard to aggregate and visualise competitive Mario Kart lounge data from external APIs.
- Developed reusable React components for leaderboard views, player profiles, player comparison and stat filtering.
- Added frontend and backend test coverage across components, hooks, utilities, and API validation to reduce regressions.
- Configured deployment-ready architecture using Vercel/serverless API endpoints and modern frontend tooling.

Media Review Platform | *React, Node.js (Express), MongoDB*

July 2025 – Present

- Developed a full-stack media review platform with a React frontend and Express backend.
- Implemented secure user authentication and authorisation using JWT and bcryptjs.
- Built full CRUD workflows for reviews and designed reusable UI components for maintainable frontend development.
- Deployed the frontend on Vercel and backend on Render with MongoDB Atlas for managed cloud data storage.
- Applied production-style development workflows including API integration, environment configuration and deployment troubleshooting.

House Price Predictor | *Python, Pandas, NumPy, scikit-learn, XGBoost*

July 2025 – Present

- Built an end-to-end machine learning pipeline to predict house prices using the Kaggle House Prices dataset.
- Performed data preprocessing including missing-value imputation, outlier treatment, categorical encoding and feature scaling.
- Conducted exploratory data analysis (EDA) to inform feature engineering and model selection decisions.
- Trained and evaluated multiple regression models including Random Forest and XGBoost, with strong predictive performance.
- Documented methodology, experiments and results in a reproducible Jupyter Notebook.

Quiz Application | *Kotlin, Firebase, Firestore, REST APIs*

Sept. 2024 – Dec. 2024

- Developed an Android quiz app with secure authentication and cloud-backed data storage.
- Implemented leaderboard, quiz history, and category-based quiz features to improve engagement and replay value.
- Integrated REST APIs for quiz content and structured app logic for scalable feature additions.

Remindication | *Kotlin, Firebase, Retrofit*

Oct. 2024 – May 2025

- Built a medication reminder Android app focused on improving user adherence to treatment schedules.
- Implemented authentication and real-time data synchronisation with Firebase and Firestore.
- Integrated API communication via Retrofit and designed reminder workflows for reliable daily usage.

Image Recognition Machine Learning Project | *Python, SVM, CNN*

Nov. 2024 – Dec. 2024

- Conducted a comparative study of SVM and CNN models for image recognition on the CIFAR-100 dataset.
- Authored a conference paper detailing methodology and results, achieving a 99% score on the assignment.

TECHNICAL SKILLS

Languages: Java, Python, Kotlin, JavaScript, Haskell, SQL (MySQL), C#, TypeScript

Frameworks: Spring Boot, Retrofit, Firebase (Auth, Firestore), Express.js, React, React Context API, Material-UI, Next.js

Databases: MySQL, MongoDB, Mongoose

Cloud/Deployment: Vercel, Render, MongoDB Atlas, Netlify

ML & Data Science: Pandas, NumPy, Matplotlib, Seaborn, Tensorflow, scikit-learn, XGBoost, Jupyter

ML Models: Decision Trees, Random Forest, SVM, CNN, PCA, LDA

Tools & Concepts: Android Studio, Git, IntelliJ, VS Code, PyCharm, Axios, JWT, bcryptjs, CORS, RESTful APIs, Environment Variables, Vitest, SEO