

Harun Tontus

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EDUCATION

Swansea University

Bachelor of Science in Computer Science

Swansea, Wales

Sept. 2022 – July 2025

- 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, achieving high prediction accuracy.
- Machine Learning Assignment (99%): Conducted a CIFAR-100 image classification project using CNN and SVM, scoring highest in the module.

Bassaleg Secondary School

Newport, Wales

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

EXPERIENCE

Festive Colleague

Winter 2021

Tesco Retail Store

Risca, Wales

- * 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—valuable in software engineering

PROJECTS

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

July 2025 – Present

- * Developed and deployed a full-stack web application for reviewing media.
- * Implemented robust user authentication (JWTs, bcryptjs) and comprehensive CRUD operations for reviews.
- * Integrated advanced search and filtering, featuring protected routes and a responsive UI.
- * Deployed to cloud platforms: Frontend on Vercel, Backend on Render, Database on MongoDB Atlas.

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

July 2025 – Present

- * Developed an end-to-end machine learning pipeline for predicting house prices using the Kaggle House Prices dataset.
- * Performed comprehensive data preprocessing (e.g., missing value imputation, outlier handling, categorical encoding, feature scaling).
- * Conducted in-depth Exploratory Data Analysis (EDA) to derive insights and guide feature engineering.
- * Trained and evaluated regression models (Random Forest, XGBoost), achieving strong predictive performance
- * Documented entire process in a Jupyter Notebook with detailed explanations for reproducibility and clarity.

Quiz Application | Kotlin, Firebase, Firestore, REST APIs

Sept. 2024 - Dec. 2024

- * Built an Android quiz app with secure authentication and cloud storage.
- * Integrated features such as leaderboards, quiz history, and categorised quizzes.

Remindication | Kotlin, Firebase, Retrofit

Oct. 2024 – Present

- * Created a medication reminder app designed to improve patient adherence.
- * Utilised Firebase for authentication and Firestore for real-time data management.

Image Recognition Machine Learning Project | Python, SVM, CNN

Nov. 2024 – Dec. 2024

- * Conducted a comparative analysis of SVM and CNN 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#

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

Databases: MySQL, MongoDB, Mongoose

Cloud/Deployment: Vercel, Render, MongoDB Atlas

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, Eclipse, Unity, Axios, JWT, **bcryptjs**,

CORS, RESTful APIs, Environment Variables