

# Harun Tontus

07784674705 | [harunemretontus@hotmail.com](mailto:harunemretontus@hotmail.com) | <https://www.linkedin.com/in/harun-tontus-3538161b6/> | <https://github.com/Mints1104>

## 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

*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—valuable in software engineering

Winter 2021

Risca, Wales

## 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

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**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