

Henry Twist.

henrytwist.uk • github.com/hctwist • stackoverflow.com/u/10082297 • play.google.com/store/apps/dev?id=9096773876595019672

TECHNOLOGIES

PROFICIENT

Kotlin

Android

Java

MATLAB

HTML/CSS

COMPETENT

C#

R

Firebase

SQLite

UWP

Hilt/Dagger

FUNDAMENTAL

Python

Git

Fortran 90

JavaScript

EDUCATION

Master of Mathematics (First class honours)

University of Bath September 2015 - July 2019

Module highlights:

Scientific Computing • Numerical Linear Algebra • Computer Vision • Numerical Optimisation and Large-Scale Systems • Group Theory • Medical Statistics • Cryptography

Dissertation (First class):

Optimisation of Neural Network Architecture - using Bayesian statistics to optimise the structure of artificial neural networks.

Used MATLAB to create a neural network from scratch. Then implemented Bayesian optimisation to automatically select and tune hyperparameters, therefore enhancing training and accuracy.

A/AS Levels

Sir John Leman High School 2013 - 2015

A Levels: Mathematics, Further Mathematics, Physics – A*A*A*

AS Levels: French

PROJECT HIGHLIGHTS

Ray 2020 – 2021

Kotlin

A weather app intended to demystify weather terminology and promote sun-safety.

- Scalable and multiplatform-ready architecture, drawing inspiration from Clean Architecture
- Efficient use of coroutines and flows to abstract API access
- Dependency injection with Hilt
- Aggregation from multiple data sources with caching and graceful error handling

FullCart 2018 - 2021

Kotlin

Java

A simple shopping list app with features to help you keep track of food expiry.

- Released on the Play Store in 2019. A complete redesign has now been released in beta
- Data storage in SQLite with Room, soon to include sharing capabilities with Firestore
- Initially written in Java, rewritten in Kotlin

Acquiesce 2021

C#

Two-way file synchronisation software. Designed to be used with multiple clients and a NAS device.

- Learnt C# and worked with the Universal Windows Platform and Fluent Design
- Developed a two-way file synchronisation algorithm, intended to be mostly autonomous

CURRENT EMPLOYMENT

Cocktail Bar Supervisor September 2019 – 2021

Trained and managed all other bartenders, ensuring they were following the company's strict regulations and complying with the law. Made numerous improvements to the bar itself and proposed, then implemented, standards for others to follow.

OTHER INTERESTS

UI/UX Design • Tennis • Mixology • Cooking • Running • Chess • PC Building

Intermediate in French and currently learning Spanish.