Bassam Helal

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⊞ Projects

- **Waqti:** Published Android application for Kanban board time management similar to Trello. Written in Kotlin with TDD using RxJava, ObjectBox, JUnit5, GSON and more. bit.do/Waqti
- **Wudooh:** Published Chrome and Firefox extension that clarifies any Arabic text in the DOM. Written entirely in Typescript using the extension APIs. bit.do/Wudooh
- **Unsplash Photo Picker:** Published Android Library that allows you to quickly search Unsplash for free photos with just a few lines of code. http://bit.do/photoPicker
- **Instrument Digitizer:** Final year university project that transforms instrument audio into playable digital instruments using Fourier Transform and additive synthesis. bit.do/Idigit
- **MusicBlog:** ASP.NET Core MVC web application for the university Web Application Development module. This uses the ASP.NET Entity Framework and has security in mind.
- **Artatawe:** eBay-like JavaFX application for the university Software Engineering module. The project was developed throughout the entire academic year in a team of 6. We received high first class marks (80+) for each of the 6 iterations.

⚙ Technical Skills

- Advanced proficiency in **Kotlin** and **Java** for **Android** using tools like **RxJava** and **MVVM**
- Proponent of **TDD** with a strong ability to write functional unit tests using **JUnit5**
- Advanced proficiency in **object oriented design** and principles
- Intermediate proficiency with **functional programming** concepts
- Intermediate proficiency with **TypeScript** and **JavaScript**
- Intermediate proficiency with **C#** using **ASP.NET Core MVC**
- Intermediate proficiency with **C++14**
- Intermediate proficiency with **NoSQL and SQL** including Google Cloud **Firebase Database**
- Elementary proficiency with **Machine Learning** concepts using **Python**
- Elementary proficiency with **Node.js** using **TypeScript** and **JavaScript**

Soft Skills

- **Fast learner** with a strong passion for learning new things not just in software
- Strong **teamwork** and **communication** skills with a passion for helping people
- **Culturally diverse** from moving and traveling across continents
- Member and organizer of the University **Algorithms Club** (Green Book Club)
- Member and organizer of the High School **Debate Club**
- Native fluency in **English** and **Arabic**, elementary proficiency in **Turkish**
- Member of the **British Computer Society**
- Attended **leadership conferences** in Europe and the United States

Education

Graduated from Swansea University in BSc. Software Engineering with a First Class degree with Honors classification in 2019 (full University transcript can be provided upon request). Some modules taken during the course:

- Software Engineering (1 & 2)
- Data Representation, Markup Languages and Web Services
- Web Application Development
- Concurrency
- Algorithms
- Advanced Object Oriented Programming
- Big Data and Machine Learning
- Software Testing
- Database Systems

Interests

When I'm not building software or reading about it, I enjoy playing on the keyboard a wide variety of music genres, learning about different languages and cultures and trying to understand human behavior and psychology. I really like cats too.