

# RUDINE SURYA HARTANTO

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## EDUCATION

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- Waterford Institute of Technology, Waterford, Ireland** *Sep. 2018 – Sep. 2019*  
MSc in Computing (Enterprise Software Systems) (1.1)
- DigiPen Institute of Technology, Singapore** *Sep. 2011 – Dec. 2014*  
*Bachelor in Computer Science in Real Time Interactive Simulation*

## WORK EXPERIENCE

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- Freelance Android Developer** *2017 - 2018*
- Independently delivered a low cost, fully functional Android applications that meet the client expectations with no rework. Achieved by clear constant communication with client to translate their needs into technical specifications.
  - Experience developing content management system apps with SQL database using Realm/SQLite.
  - Skills: Android, Java, Kotlin.
- Killer Lobster, Singapore** *2015 - 2016*  
*Game Programmer*
- Enable rapid creation of game levels by developing specific level creation tools for the creative team to design AI and levels with zero coding.
  - Perform significant improvements to one or more games. Achieved by upgrading the technology base and optimizing the math/game logic to accommodate more user interactions seamlessly. Uses Unity best practices to improve code readability and architecture.
  - Experience working in Agile and App Store deployment along with integrating payment and analytics for each platform. Experience with third party solutions to enhance development (Playmaker, Tween, Behavior Designer, NGUI).
  - Skills: Unity, C#.

## PROJECTS

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### **MSc Dissertation: Epilepsy Seizure Classification with Machine Learning**

The thesis aims to design a machine learning model that can classify raw EEG signal which has been distorted by noise into seizure or non-seizure. The project, written in Python, and using the Bonn University EEG dataset, show that the classifier model with the proposed solution, that uses wavelet transform to extract important signal features in its distinct frequency domain report a better accuracy under variable noise environment.

### **Modern App Development**

Ability to create responsive RESTful client, and complete CI/CD flows to automate development process. Proficient with anything Android (Activity, Fragments, Intents, Lifecycle callbacks, RecyclerView, SQLite Room, Retrofit, Maps) and familiar with advanced concepts (MVVM, MVP, LiveData, AutoValue, Conductor, RxJava, Dagger 2, Butterknife, Firebase). Experience with unit testing using JUnit and Mockito. Exposure to Kotlin, and React Native.

### **Modern Web Development**

Ability to create responsive RESTful client. Proficient with JavaScript, MERN (Mongo, Express, React, Node) Stack, and also advanced concepts (Redux, Async, Hooks). Experience working with third party APIs (Maps, Firebase, RESTful API). Exposure to unit testing and RESTful API testing using Mocha, Chai and Supertest.

## TECHNICAL STRENGTHS

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**Languages** C, C++, C#, Java, JavaScript, Kotlin, Python  
**Technologies** Android, AWS, Firebase, Git, NodeJS, ReactJS, Unity