

Ronan Hayes

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About Me

I have recently graduated from University with a First Class Honours studying BSc Honours Computer Science. Technology has always fascinated me and seeing the vast developments in technology throughout my lifetime attracted me to study this field. The main area of technology that I am intrigued by is financial technology – specifically algorithmic trading. For my final year project I created a web application that allows users to search for any symbol via Yahoo Finance and plot multiple technical indicators. As well as training and testing 6 machine learning models to predict tomorrow's closing price of the selected symbol. Since finishing my studies I have begun studying online courses to truly allow me gain insight into the field of Finance and FinTech, including 'Python for Financial Analysis and Algorithmic Trading'.

Key Skills

- I am highly computer literate enabling me to use a variety of software's and packages, including programming experience in multiple languages – Java, MATLAB, Python, JavaScript, C, SQL, Dash by Plotly, HTML5, CSS3, Android Studio, Processing (Java 3D) and Assembly.
- I have great interpersonal and teamwork skills. From various employment opportunities, sports teams and group projects at University I have always learnt from others and strive to help and find the best outcome for everyone.
- My time management has always been key as I like to plan strategically. From balancing various University work, enjoying social events and regularly attending the gym I have been able to always balance my priorities. I have also used Agile methodology during my University projects.
- I am highly analytical and pride myself on looking into every detail without missing anything, from enjoying Mathematics, creating various Engineering projects and developing complicated programs I have identified problems early on before later ramifications.
- I have developed my customer service and communication skills throughout my previous various jobs, becoming comfortable with new people.
- Even when under pressure I can work to the best of my ability and make key decisions. I am always determined to produce work of the highest standard.
- I work well independently as well as in a team and push myself to fully understand anything I find challenging.

Education

University of Brighton

Lewes Road, Brighton, BN2 4GJ

University Modules

September 2017 – June 2020

Year 1

- | | |
|--|-------------------------------------|
| ○ Programming - Pass | ○ Web Development - Pass |
| ○ Databases - Pass | ○ Human Computer Interaction - Pass |
| ○ Mathematics - Pass | ○ Requirements Analysis - Pass |
| ○ Embedded Architecture and Programming - Pass | ○ Perspectives on Computing - Pass |

Year 2

- Data Structures and Algorithms – 1st
- Integrated Group Project – 1st
- Functional Programming – 2:1
- Operating Systems – 2:1
- Project Planning and Control – 2:1
- Object Orientated Software Architecture, Design and Implementation – 2:1
- Logic and Formal Specification – 2:1
- Intelligent Systems – 2:2

Year 3

- Programming Languages, Concurrency and Client Server Computing - 2:1
- Mobile Application Development - 1st
- 3D Dynamic Modelling - 1st
- Individual Project - 1st
- Specification and Refinement - 2:1

Langley Park School for Boys

South Eden Park Road, Beckenham, Kent, BR3 3BP
A-Levels

September 2015 – June 2017

- Engineering - B
- Information Technology - C
- Product Design - C

Ravens Wood School

Oakley Road, Bromley, Kent, BR2 8HP
GCSE's

September 2010 – June 2015

- Design Technology – Graphic Products – A
- Information Technology – A
- English Language – A
- Mathematics – B
- English Literature – B
- Science Core – B
- Science Additional – B
- Media Studies – C
- History – C
- German – D
- ECDL European Computer Driving License Level 2 – Pass

Work Experience

iMakr

23/06/2014 – 07/07/2014

During secondary school I completed work experience at a 3D design/printing company called iMakr. I was involved in updating their 'MyMiniFactory' website to improve their user interface, along with adding and sorting products. I also helped gather freelance candidates for their new office in New York – creating a database with their contact details and samples of their 3D work. Lastly, I sourced 3D models of statues for their 'Scan the World' section of their website. This has now led me to chose 3D Dynamic modelling in my final year – where I learn the algorithms behind 3D modelling.

London South Bank University

Summer 2018

Fees / QA Officer

During the summer I worked at LSBU within their Fees department. My role as a fees officer was to engage with the enrolment process of students and assess their fees. This entailed communicating face to face with 50-100 Home, EU and Overseas students per day. All these students would have varying circumstances which could alter their fees, therefore I had to follow different frameworks supplied by UKCISA to see which fees a student was entitled too. I dealt with students from all kinds of backgrounds and dealt with challenges from day to day, such as knowing how to deal with students with different disabilities. Working in a team was great and I was able to take lots of new skills from this experience.

London South Bank University

Summer 2019

Clearing / GSM Helpline

I was contacted by LSBU to help within their clearing team which handled all the students enrolling through the clearing process. My specific role was overseeing GSM students, Greenwich School of Management had recently gone into administration and their students needed new Universities to continue their studies. Within this role I would take inbound calls answering any queries these students had, make outbound calls regarding their online applications, receiving transcripts and making decisions on whether they were suitable to make it onto the specific course due to their previous studies, and various data entries such as making UCAS RPA's (Record of Prior Acceptance) on behalf of GSM students. This was my first time working with inbound/outbound calls – something I was nervous and hesitant about. However, after the first day I had overcome this and was confident over the phone.

Fees / QA Officer

Following the previous job, I was asked back to help their enrolment process run smoothly again. After previous experience I oversaw a group of new employees to teach them the process and to be their first port of call if they were unsure with day to day tasks. It reinforced what I previously took from this job and was rewarding seeing others learn.

Interests

I have always been a very keen sportsman since a very young age, always playing to a very high standard up to academy level. I was fortunate enough to captain my school to the Kent Cup final and on tour to the Dallas Cup in Texas. I have always followed football and have had a season ticket for over 10 years, following my team through thick and thin. I regularly attend the gym and find this is a great way to discipline yourself, along with self-development.

Civil Engineering and design always entertained me from an early age, giving me a keen eye for detail. This led me to learn some engineering software's such as AutoCAD and SolidWorks. I was awarded the best engineering project at A-Levels whereby I designed and manufactured a hydro-energy water wheel which generated electricity. Real estate development/investment is something I would love to one day be involved in.

After leaving school I gained an interest for financial markets and trading. Within my modules I have been able to learn and use programming languages such as Java, Python and MATLAB, three languages highly used within the financial sector. Combining my programming knowledge and interest within trading I decided to base create a web application using Dash by Plotly. It allows the user to search for any symbol via Yahoo Finance and plot multiple technical indicators including RSI, MACD, Stochastic Oscillator and more. I also developed 6 regression machine learning models that predict an inputted symbols next day closing price. These include XGBoost, LightGBM, SVR, Decision Tree, Random Forest and Linear Regression.

Other notable projects are SwiftFix which is an Android application that connects local tradesman to customers via their geographical location, similar to how Uber functions.

I also like looking into other peoples programming problems, and related problems via sites such as StackOverflow and Reddit. Here I can help others and learn new things myself.

I upload some of my projects to GitHub as this is widely used within companies for source control. Many of my university assignments can be seen here; the link is at the top with my other personal information. Now I have finished University I am going to focus on learning new skills via online courses and developing new exciting projects. Some programming skills I want to learn and improve are Python for Data Science, and Swift for developing iOS mobile applications. I have been reading through a site called BabyPips.com which guides you through the various topics of trading, focusing on foreign exchange. I have lately been working on building my own website to demonstrate my projects, as well as a website for a friend in the construction industry for them to widen their customer base.

References

Multiple references are available upon request.