

Boaz Francis

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Education

- 2016 – 2020 Imperial College London - Computing (Artificial Intelligence) MEng**
- **Current grade: First class honours**
 - First year modules include: Programming (Haskell, Java, C), Mathematical Methods, Logic, Databases, Discrete Mathematics, Hardware and Reasoning about Programs.
 - Second year modules include: Compilers, Operating Systems, Networks and Communications, Software Engineering Design, Algorithms, Probability and Statistics and Introduction to AI.
- 2014 - 2016 JFS School - London (A-Levels)**
- Mathematics: A*
 - Further Mathematics: A*
 - Computing: A
 - Physics: A
 - Merit in Advanced Extension Award (AEA) Mathematics
 - Achieved the third highest A-Level grades in a cohort of over 300.

Academic Achievements

- 2016 – present The IET Diamond Jubilee Scholarship**
- Awarded a Diamond Jubilee Scholarship by the Institution of Engineering and Technology (IET) supported by BT for academic excellence.
 - Member of the IET Diamond Scholars Council.
- 2016 Prize for A-Level Mathematics**
- Awarded for demonstration of excellence in mathematics.
- 2012 – 2013 Preparatory course in Mathematical Sciences**
- Completed a selective Preparatory Course in Mathematical Sciences at Tel-Aviv University at age 14, after which I was granted admission to the Bachelor's degree in Sciences there.
 - Completed my high school mathematics studies 3 years early as part of the course.

Work Experience

- July 2017 - September 2017 Software Engineer Intern - BT**
- Created a Grafana plugin to visualise all events and incidents on BT's network. I used ES6, OpenStreetMap and Leaflet as well as ElasticSearch as a data source. The plugin plots customisable markers on a configurable map based on the feed of events data.
 - Worked closely with customers.
 - Created Chef Solo projects for internal applications.
 - Extracted data from Oracle databases into Graphite using Groovy.

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December 2016 Biomimicry Web App

- January 2016

- Co-developed an educational web app for a museum's science exhibition using HTML, JS and CSS.
- Used PhoneGap to make the app available for use on tablets.

September 2016 Maths Tutor

- July 2017

- Tutored multiple A-Level students on a weekly basis for AS and A2 exams in Mathematics.

Projects

October 2017 WACC Compiler

- present

- Leading a team of 4, designing and building a compiler for the WACC programming language to generate assembly code for the ARM instruction set using Java and ANTLR.

May 2017 Tap a Tune

- Developed an emulator and an assembler for ARM assembly in C.
- Created Tap a Tune, a music based game in C which challenges a user to play along to the notes of a song.
- Got to the final round of the year awards, based on level of coding difficulty, creativity and originality.

February 2015 Portfolio Manager

- April 2015

- Designed and created a portfolio manager web application for the physics department as part of my A-Level project using PHP, HTML, CSS and MySQL.

Technical skills

- Java, C, C++ , JavaScript, SQL, Ruby, Haskell, HTML, Git, Vim

Languages

- English - fluent
- Hebrew - native speaker

Extra-curricular

- Practiced karate for 13 years, winning multiple National Championships in Israel, and training and volunteering as an instructor.
- Leader in a youth movement. Lead children in years 7 to 10 on a weekly basis for 3 years, leading camps and activities.
- Member of Robogals, a student-run organisation that aims to engage school girls in engineering topics from a young age, taking part in activities and leading school classes.
- Performed in the school Jazz Quintet as an electric guitarist.
- Volunteered at community festival events in Israel and the UK.