

# Felix Bowyer

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## SKILLS

### PROGRAMMING

Experienced:

Python • Java • Haskell • Git • C • Bash •  $\LaTeX$  • Linux  
admin • MATLAB / Simulink

Familiar:

JavaScript • TypeScript • React • Arduino • HTML &  
CSS

## PROJECTS

### COURSEWORK

#### SCRATCH CLONE

Haskell

A clone of Scratch, built with Google's Blockly API.  
Parses and executes instructions represented in XML  
using functional programming techniques.

#### SELF-BALANCING ROBOT

MATLAB / Simulink

Programmed an Arduino-controlled robot to self  
balance using a PID control system. Group project,  
completed successfully to a 1 week deadline.

#### NotNo

C

Text manipulation program, with built in ncurses  
interface.

#### ROBOT MAZE CONTROLLER / WAFFLES

Java

Control program for a robot navigating a maze,  
implementing a level of artificial intelligence (AI), and a  
backend for a restaurant reviewing website.  
Implements AVL trees, quicksort, hash maps and other  
high-level data structures.

### OTHER

#### MULTIPLAYER PLATFORMER

Python

Multiplayer platformer fighter game created using  
pygame. Implements full client-server model with  
Python sockets.

#### MINECRAFT PLUGIN

Java

Game mod created for a charity event using Maven.  
Raised over £500 from donations processed and acted  
on by the plugin.

#### 3D PRINTING

Built and modified a DIY 3D printer, controlled with a  
RepRap PCB over USB, assembled from 3D printed  
parts.

## EDUCATION

### UNIVERSITY OF WARWICK

#### COMPUTER SYSTEMS ENGINEERING (MENG)

2020 - Present | Coventry, UK

Currently working at a 1st.

### THE COMMONWEAL SCHOOL

#### SCHOOL AND SIXTH FORM

2013 - 2020 | Swindon, UK

A\*A\*A(A) at A level, in Computer Science, Physics, Mathematics, and  
Further Mathematics.

5 9s, 3 8s, 2 7s at GCSE, and A (top grade) FSMQ Additional  
Mathematics.

## EXPERIENCE

### VOXA LIMITED | DEVELOPER

2021 | Coventry, UK

- Worked in a small team using React and Tailwind CSS to create  
Semlink, a web app to connect you to seminar and coursemates at  
university.
- Initially created for WarwickHack2021, with continued  
development.
- Managed app integration with Google's Cloud Firestore database  
to store user information.

### NATIONWIDE | WORK EXPERIENCE INTERN

2018 | Swindon, UK

- Shadowed several roles in Nationwide's security department.
- Worked with penetration testers, certificate management, update  
rollout teams, and security experts.

## ACHIEVEMENTS

#### 2019 | UK Senior Mathematical Challenge

Achieved a gold certificate, awarded to the top 10% of participants.

#### 2018 | TCS Oxford Computing Challenge

Competed nationally at Hertford College, University of Oxford.

Achieved a distinction, awarded to the top 2.5% of participants.

#### 2018 | Cyber Discovery

National competition ran by HM Government. Solved a series of cyber  
security challenges and invited to the next stage.

#### 2016/7 | UK Bebras Computational Thinking Challenge

Achieved a distinction, awarded to the top 10% of participants.

## LINKS

Github:// [efbicief](#)

<http://fbcf.xyz>

References available on request.