

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

THE COMMONWEAL SCHOOL

SCHOOL AND SIXTH FORM

2013 - 2020 | Swindon, UK

A*A*A*(A) at A level, in Mathematics, Physics, Computer Science 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](http://fbcf.xyz)

References available on request.