

Felix Bowyer

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SKILLS

PROGRAMMING

Proficient:

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

Familiar:

JavaScript • TypeScript • React • Arduino • HTML & CSS

PROJECTS

COURSEWORK

SCRATCH CLONE

Haskell

A clone of the visual programming language 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.

WAFFLES

Java

Backend for a restaurant reviewing website. Implements AVL trees, quicksort, hash maps and other high-level data structures.

ROBOT MAZE CONTROLLER

Java

Control program for a robot navigating a maze, using a variety of client requested approaches.

OTHER

MULTIPLAYER PLATFORMER

Python

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

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.

COMPETITIONS AND AWARDS

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.