

# Felix Bowyer

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## SKILLS

### PROGRAMMING

Experienced:

C/C++ • Python • JavaScript/React.js • Java • Haskell  
• Git • Bash •  $\text{\LaTeX}$  • Linux admin

Familiar:

Rust • MATLAB / Simulink • TypeScript • Arduino •  
HTML & CSS

## PROJECTS

### COURSEWORK

#### MENTORME

React + ExpressJS

Software engineering group project to match new employees to mentors at a major bank. Developed matching algorithm using ML techniques, and other areas of custom API.

#### 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.

#### PACKET CAPTURE SOFTWARE

C

Multithreaded packet capture software with automatic network attack detection, using low-level packet data analysis. Optimised for high data throughput applications.

#### SIEGE

Verilog (FPGA)

Game made for the Nexys A7 FPGA board using Verilog, built on a custom built VGA driver. Low-level techniques used for advanced physics simulation.

### OTHER

#### MINECRAFT PLUGIN

Java

Game mod created for a charity event using Maven. Raised over £500 in 2 hours from donations processed 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.

## ROLES

### OPTIVER BV | SOFTWARE ENGINEERING INTERN

Summer 2022 | Amsterdam, NL

- Developing trading technologies, optimised for low latency, for a major market maker.

### VOXA LIMITED | DEVELOPER

2021 | Coventry, UK

- Used React and Tailwind CSS to create Semlink, a web app to connect you to seminar and coursemates at university.
- Managed integration with Google's Cloud Firestore database.

### 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

#### 2021-22 | Society Technical Officer

Became Technical Officer for Warwick Computing Society and Warwick Minecraft Society, managing and maintaining Linux servers.

#### 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.

## LINKS

Github:// [efbicief](#)

<http://fbcf.xyz>

References available on request.