

# James Brookes

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## Education

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### University of East Anglia

*BSc Computer Science,*

Year 1: 68.5%, Year 2: 63%, Year 3: Predicted a 2:1 (65%)

Final Year Project: Web app to visualise Protein Sequencing

Coursework in: Software Engineering, Data Structures and Algorithms,  
Human Computer Interaction, Developing Secure Software

**Norwich, UK**

*Sep 2018–June 2021*

### East Norfolk Sixth Form College

*A-Levels,*

A Level Computer Science (A) Physics (B) Mathematics (B) AS Chemistry (B)

**Gorleston, UK**

*Sep 2016–June 2018*

## Computer skills

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### Programming Languages:

Java, C#, Python

### Web Development:

Responsive web design, JavaScript, React, D3, SQL

### Framework:

Bootstrap, Flask, PostgreSQL

### Software & OS:

Visual Code, Git, Linux, Bash, IntelliJ

### Methods:

Git version control, Agile development

### Hardware:

Raspberry Pi, DE10-lite, ESP8266

## Projects

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These projects can be viewed in more detail on my Github.

### University Projects.....

- Web App to visualise Protein Sequencing: Final year university project to create a web app visualising amino acid sequences of proteins. In development with collaboration from The Sainsbury Laboratory. Utilises D3, React, and open-source BioJS frameworks.

- Study Planner: Lead software engineer in a 5-member group on developing a study planner for university students. Implemented in Java using a Model–View–Controller (MVC) architecture. Coded using Java and JavaFX.
- Word Autocomplete using Tries: Developed algorithms to suggest auto completions using tries data structure.

### Personal Projects.....

- Portfolio - Personal website written in React. Makes use of Bootstrap for responsive design.
- LED Hexagon - Created an LED wall structure. Uses ESP8266 and open source software to enable control via a mobile app.

## Experience

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### Relevant.....

#### **Social Storm Hackathon 2020**

*Participant*

*Nov 2020*

- Tackled the UN's Sustainable Development Goal surrounding Gender Equality
- Collaborated with students from Belgium and Kenya
- Developed and presented a minimal viable product of a social blog where people can anonymously post their experiences of gender inequality

### Miscellaneous.....

#### **Andrew Siely**

**Martham, UK**

*Labourer*

*June 2018–August 2018*

- Summer employment for a self-employed tradesman
- Communicated with and worked alongside other tradesmen to complete tasks
- Prioritised work to meet deadlines

## Accomplishments & Interests

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**Athletics:** Committed to a 16-week marathon training program in order to run the 2020 London Marathon. Active efforts raised over £150 for the Big-C Charity.

**Mixed Martial Arts:** Charity fundraising alongside UEA's mixed martial arts club in aid of Help for Heroes - raising over £1000 in total