James Brookes

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Education

University of East Anglia	**Norwich, UK**
BSc Computer Science,	*Sep 2018–June 2021*

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

East Norfolk Sixth Form College	**Gorleston, UK**
A-Levels,	*Sep 2016–June 2018*

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

Computer skills

Programming Languages:
Java, C#, Python

Web Development:
Responsive web design, React, JavaScript, D3, SQL

Framework:
Gatsby, Bootstrap, Flask, PostgreSQL

Software & OS:
Visual Code, Git, Linux, Bash, IntelliJ

Methods:
Git version control, Agile development

Hardware:
Raspberry Pi, DE10-lite, ESP8266

Projects

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 with Gatsby and React. Makes use of Bootstrap for responsive design and Tailwind CSS for customization.

o DIY LED Structure - Created an LED wall structure. Uses ESP8266 and open-source software to enable control via a mobile app.

Experience

Relevant

Social Storm Hackathon 2020

Participant   *Nov 2020*

o Tackled the UN's Sustainable Development Goal surrounding Gender Equality
o Collaborated with students from Belgium and Kenya
o 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*

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

Accomplishments & Interests

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