

Joshua Gornall based in London, UK

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Education

University of Oxford

Jan. 2022 to June 2024

MSc in Software Engineering (Part-time)

Oxford, UK

- Modules for 2022: Algorithmics, Object-Oriented Programming

University of Manchester

Sept. 2019 to Sept. 2021

PhD in Material Physics (Submitting early for MPhil)

Manchester, UK

- Developed a novel cellular automata model using C++ to simulate diffusion and dissolution kinetics of particles. The results demonstrated promise over other mathematical and phenomenological approaches explored.

University of Liverpool

Sept. 2015 to July 2019

Bachelor of Science in Chemistry with Honours

Liverpool, UK

- Grade Achieved: Upper 2.1 Classification.

Experience

Full Stack Software Engineer

Sept. 2021 – Current

Theodo

London, UK

- Entrusted to a client mobile application project after my first week.

Google Developer Student Lead

June 2021 – Current

Google

North-west, UK

- Chosen as 1 of 40 Google student developer leaders in the UK and Ireland region for 2021/2022.
- Grown the Google developer student community in my area from 0 to 200 members in the first month.
- Finished in the top 10 out of 500 university teams in Google's Global DSC solution challenge 2020 by developing a web application to tackle united nations sustainability goals.

Maths and Cryptography Summer Programme

June 2021 – Aug. 2021

GCHQ - British Intelligence Agency

Undisclosed

- Developed novel mathematical techniques and analytical tools in order to make logical and coherent deductions from digital signals received over noisy channels.
- Offered full time position that I turned down to pursue my passion of software engineering.

Founder of e-Commerce B2B Software Company

Sept. 2020 – Present

Sandbox Themes | www.sandboxthemes.com

Worldwide

A software company in which I am an independent theme designer and developer that creates premium themes for Shopify. The companies primary focus is developing solutions to software themes speed and performance problems.

- Over 500 sales of my turbo themes including brand partner K-Swiss.

Undergraduate Laboratory Supervisor

Oct. 2019 – March 2020

University of Manchester

Manchester

- Selected out of 100+ applications to supervise undergraduate students in their final year projects.
- Teaching fellowship award with positive evaluation of 4.78/5.00 from 93 students.
- Supervised 2 undergraduate summer projects resulting in talks at major conferences and manuscripts for publication.

Highlight GitHub Project: Sudoku Solver | Shown

Feb. 2021

- I developed a Sudoku solving tool in Python using stochastic optimisation that was later optimised by a PhD researcher by open source to a genetic algorithm for their research.

Technical Skills

Proficient: Python, TypeScript/JavaScript, C++, Java, HTML, CSS **Prior experience:** MatLab, R, Liquid

Tools/Frameworks: AWS, React, React Native (iOS + Android), NodeJS, NextJS, Firebase, Django, MongoDB

Certifications/Awards

2014 British Informatics Olympiad Finalist

- Invited to competition final round hosted at Trinity college, Cambridge where I finished in fifth position.

2018 University x Local Council Award

- Orchestrated a £300,000 fundraising project with Liverpool FC for the local community which aimed to give disadvantaged students better support in areas such as education and supportive relationships.

2018 Royal Society of Chemistry Research Prize

- Developed a Metropolis Monte Carlo simulation receiving the highest mark in the year and an opportunity to present at a University symposium of 500 academics.

2019 AkzoNobel PhD Scholarship

2021 Stanford University - Machine Learning Certification | Shown