

Alex Dawkins

Public CV

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I am a pro-active second year Computer Science student at the University of Bath. My strong drive and enthusiasm for learning has led me to compete in and win both the Bath Hack 2021 and Launchpad 2021 Hackathons, in addition to finding software development jobs for my spare time. I am a quick learner and look forward to building on my experience during my placement year.

Education

University of Bath

BSc - Computer Science with Placement Year (2019-2023) - Predicted: First Class Degree

Previous Modules

Analytical Mathematics for Applications	79
Computing as a Science and Engineering Discipline	67
Discrete Mathematics for Computation	86
Principles of Programming (1 & 2)	70, 80
Systems Architecture (1 & 2)	85, 68
Databases	67
Fundamentals of Visual Computing	74
Data Structures and Algorithms	77
Foundations of Computation	72

Current Modules

Artificial Intelligence	Functional Programming
Comparative Programming Languages	Fundamentals of Machine Learning
Human-Computer Interaction	

The Piggott School (2012-2019)

3 A-Levels: A in Computer Science, Maths B in Physics	10 GCSEs: 7, 8 in English 7 in Maths
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Technical Skills

Languages - C, Python, Java, C#, JavaScript, PHP, MySQL, HTML, CSS

Operating Systems - Linux, macOS, Windows

Other - git

Work Experience

Freelance Web Developer, London Music Teachers

February 2020 - October 2020

- Implemented PayPal REST API to support subscriptions
- Updated browsing page to display teachers in desired order and reduce loading time
- Produced a messages inbox to allow teachers to view enquiries from prospective students
- Solved critical problems in a quick time frame
- Developed time and expectation management skills

Freelance Python Developer, London Music Courses

June 2020 - September 2020

- Worked on a Python project to manage my client's employees by calculating attendance and billable hours from raw data
- Utilised skills learnt at University
- Produced second version with additional features, as requested

- Discussed future development with client
- Completed with a budget and time limits respected

Software Developer Placement, Fugro GEOS

July 2018

- Produced a cloud-based Razer ASP.NET app that generated JSON strings to configure remote hardware in a team
- Taught me the basics of working in the cloud (Microsoft Azure)
- Utilised both git and scrum
- Gave a “hand-off” presentation to the development team at the end of the placement to showcase what we had achieved

Software Developer Placement, Fugro GEOS

July 2016

- Worked in a team to start progress on an internal database interface using HTML, PHP and MySQL
- Learnt about office etiquette, including working efficiently and respectfully with others

Previous Projects

Winners of Bath Hack 2021

April 2021

- Ideated, designed and produced a remote-controlled duck by hacking the remote control of an RC car, to allow anyone to explore our campus via a live video stream
- Used Python and React, using WebSockets to communicate between the two
- Won the “Most Impressive” award after a virtual presentation and live demo, and voted 2nd by other participants for the “Hacker’s Choice” award

Winners of Bath Launchpad 2020

February 2020

- Wrote an app in 24 hours to reduce food waste, using Node and React Native
- Won the “best overall” award by unanimous decision by a panel of judges, including the Monzo Bank Ltd CTO
- Learnt about time management, team management, ideation and developed networking skills

Water Tracking App Coursework - Computer Science as an Engineering Discipline

2019

- Produced a Java application with a team to allow for users to track their water consumption
- Awarded 88%

Arduino UNO Coursework - Computer Systems Architecture

2019

- Wrote a program in C to communicate between two Arduinos
- Awarded 89%

More projects available on my GitHub page.

Other Experience

Team Member, National Citizen Service

Autumn 2017

- Voluntary personal and social development programme
- Worked with a local retirement home
- Developed teamwork, leadership and public speaking skills

Interests

I spend my spare time playing guitar, playing video games, and developing my film photographs. I always enjoy learning more about Computer Science and started programming in Python at the age of 9.