

JOSEPH CROWN

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PROFESSIONAL PROFILE

A results-oriented BSc Computer Science graduate with a strong foundation in full-stack development, including front-end technologies like React.js and back-end services using C#/.NET, Python, and Node.js. Experienced in designing and deploying scalable software solutions and RESTful APIs. Eager to leverage a background in programming and a passion for new technologies to contribute to product solutions in a challenging software engineering role.

SKILLS

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| Languages: | Python, C#, Java, JavaScript, HTML5, CSS, SQL, C++ |
| Front End: | React.js, JavaScript, HTML, CSS |
| Back-End: | .NET, Node.js, RESTful APIs, Microservices |
| Databases: | MS SQL Server, MySQL, MongoDB |
| Cloud & DevOps: | Git, Agile Methodologies |
| AI/Machine Learning: | ROS (Robot Operating System), Sensor Fusion, Machine Learning Algorithms |
| Other Technologies: | Game Maker Studio, Unreal Engine, Photoshop, Premiere Pro |
| Media: | Video Editing, 3D Animation |

KEY ACHIEVEMENTS

- **Full-Stack API Development:** Architected and developed a secure RESTful API from the ground up using Node.js, React.js, and MongoDB, demonstrating end-to-end ownership of the development lifecycle from front-end interface to back-end logic and database management.
 - **Formula Student AI Project:** Played a key role in the 1st Place Formula Student AI team by programming enhancements for an autonomous vehicle's LiDAR systems. Implemented sensor fusion algorithms using C++, ROS, and machine learning, directly contributing to the success of an AI-driven project.
 - **Cross-Platform Application Development:** Developed cross-platform mobile applications using .NET MAUI and C#, showcasing the ability to build and deploy solutions across different operating systems.
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PROFESSIONAL WORK EXPERIENCE

SOFTWARE DEVELOPMENT

2021 - Present

- Contributed to enhancing the LiDAR systems of an autonomous self-driving vehicle, by implementing sensor fusion of LiDAR data and an RGB camera. This work was done using C++, ROS and machine learning algorithms.
- Developed cross-platform mobile applications using .NET MAUI and C#.
- Developed a secure RESTful API utilizing Node.js libraries, MongoDB, and React.js.
- Programmed mobile games, including an "angry birds" type game for iOS and android using the game maker studio framework.
- Programmed character movement, cameras, game controls and video game world logic in a third person action game using Unreal Engine.

RADIO 31 - TECHNICAL LEAD

Sept 2019 – Sept 2021

- Designed and deployed a responsive website, built on Wordpress and a MySQL database system.

- Assisted in the design of a cross-platform mobile app, built using Flutter, which integrated on-demand live streaming and a custom RSS Feed for podcasts.
- Identified inefficiencies in the streaming pipeline and implemented two new automation software solutions to enhance efficiency of daily tasks, resulting in a more streamlined and effective broadcasting process.
- Day to day management of the website/mobile app to update information, manage errors and implement new functionality.

FREELANCE WEB DEVELOPER

June 2016 – Sept 2019

- Worked on over 20+ website development projects, including ecommerce websites, using languages such as HTML5, PHP, JavaScript, and CMS platforms such as WordPress and Drupal.
- Implemented new functionality into existing websites using CMS platforms such as WordPress and Drupal.
- Interacting with MySQL databases to resolve errors and also during general site maintenance.
- Worked on both front-end and back-end web development projects depending on client requirements.

FOUNTAIN OF LOVE - VOLUNTEER (IT DEPARTMENT)

Sept 2018 – Sept 2019

- Designed and developed new functionalities onto the organisation's existing website using PERCH and PHP.
- Day to day management of the website to update information, manage errors and implement new features.
- Led the construction of a new video studio, working with colleagues and management to improve the quality and frequency of video content.

REDCLIP AUDIOVISUAL - CREATIVE LEAD

Jan 2018 – Sept 2018

- Designed and developed websites for clients and for the internal organisation using Wordpress and Javascript and a MySql database management system.
- Led video editing and graphics design projects as the lead creative, translating client visions into captivating ad campaigns and promotional materials that resonated with target audiences to increase sales.
- Day to day handling of the website such as errors and updating page information.

EDUCATION & CERTIFICATIONS

Hood College, USA: Aug 2025 – Present
MSc. Cybersecurity

Coventry University, UK: Sept 2022 – April 2024
BSc. Computer Science with Artificial Intelligence - Upper Second Class (2:1)

Related Modules: Introduction to Artificial Intelligence, Software Engineering, Big Data Programming, Security, Operating Systems & Security, Data Science, Mobile App Development, Web API Development, Machine Learning, Student AI Self Driving Car Project

Highschool I 2014 - 2015

Highers: English (A) | Art (A) | Computing (A) | Math (B) | Chemistry (B)

Intermediate 2: English (A) | Chemistry (A) | Math (A)

HONOURS AND AWARDS

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| Distinction Award | 2008 |
| art competition organised by US AID | |
| Betty Shepard Award | 2015 |
| for Academic Excellence | |
| Most Outstanding Staff of the Year | 2015 |
| WCI Aberdeen | |
| Most Outstanding Staff of the Year | 2023 |
| Fountain of love | |
