

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 AI project work and a passion for new technologies to contribute to AI-driven product solutions in a challenging software engineering role.

SKILLS

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 ENTHUSIAST

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.
- Designed and maintained responsive front-end applications using React.js and JavaScript.
- Contributed to an AI-driven autonomous vehicle project by implementing sensor fusion of LiDAR and camera data using C++, ROS, and machine learning algorithms.
- Developed cross-platform mobile applications using .NET MAUI and C#.
- Gained experience with game development engines, programming character logic, controls, and game worlds in 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, which integrated on-demand live streaming and a custom RSS Feed.
- Identified and resolved inefficiencies in the streaming pipeline by implementing new automation software, streamlining daily broadcasting tasks..

FREELANCE WEB DEVELOPER

June 2016 – Sept 2019

- Worked on over 20 website development projects using HTML5, PHP, JavaScript, and CMS platforms like WordPress.
- Managed both front-end and back-end web development tasks based on client requirements.
- Interfaced with MySQL databases for maintenance and to resolve errors.

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.
- Played a key role in setting up new IT equipment as required, ensuring smooth integration of network switches, computers, production lighting, and audio instruments for recording.
- Led the construction of a new video studio, working with colleagues and management to improve the quality and frequency of video content.

EDUCATION & CERTIFICATIONS

Coventry University | Sept 2022 – April 2024

BSc. Computer Science - 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, FSAI Self driving car

HONOURS AND AWARDS

Betty Shepard Award	2015
for Academic Excellence	
Most Outstanding Staff of the Year	2023
Fountain of love	
