






# Iain Hoolahan

Software Engineer

## SUMMARY

I am a software engineer with a background in civil engineering and a passion for problem-solving, continuous learning, and collaborative innovation. My recent immersion in the intensive 16-week coding bootcamp at Makers Academy has honed my technical capabilities and deepened my commitment to the tech world. I am particularly drawn to working alongside forward-thinking individuals, eager to build innovative software solutions within a team-oriented environment.

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## EDUCATION HISTORY



**Cardiff University**

**MEng Civil Engineering 2:1**

2011-2015

## KEY PROJECTS

Title	Link	Description	Technologies
Tipsy Tourist	<a href="#">GitHub</a> <a href="#">Website</a>	A web page which uses Google APIs to generate a pub crawl/tourist attractions itinerary, plot the route on a map and provide extra details on each location.	React, JavaScript, Node, Serverless, Chakra UI, Google API, AWS Lambda, AWS S3
Yahtzee!	<a href="#">GitHub</a> <a href="#">Website</a>	A front end application allowing single players to enjoy the classic dice game Yahtzee with modern UI features.	TypeScript, React, Tailwind CSS
StratoStruct	<a href="#">GitHub</a> <a href="#">Website</a>	A full-stack MERN app with authorisation, authentication and password encryption. Users can select the construction products they require and get a shortlist of viable suppliers ordered by their distance from the site. Admin can CRUD suppliers and products in the database.	MongoDB, Express, React, HTML, CSS, Node, JavaScript, Mapbox API
Find A Film	<a href="#">GitHub</a> <a href="#">Website</a>	A film search front end application that lets users search for a film, sort, filter, and quickly determine which platform offers it for streaming, rental, or purchase	TypeScript, Node, Express, React, HTML, CSS, TMDB API, JustWatch API

 To view my **portfolio** website follow [this](#) link  
 More projects are available on my **GitHub** profile via [this](#) link

## SOFTWARE EXPERIENCE

### MAKERS ACADEMY

#### *Full Stack Software Development Bootcamp, Oct 2022 - Jan 2023*

- **Test Driven Development:** Adopted Test-Driven Development (TDD) as a core approach, enhancing code reliability and maintainability.
- **Debugging:** Leveraged strong analytical skills and attention to detail for efficient debugging.
- **Agile Working:** Completed four engineering projects using Agile frameworks, including Scrum and Kanban.
- **Team Communication:** Conducted daily stand-ups, sprint planning, and retrospectives to ensure effective team communication.
- **Collaboration Tools:** Utilised tools such as Jira, Miro, Trello and Slack for remote and in-person collaboration.
- **Other Tools:** Proficient in GitHub, VS Code, Postman, TablePlus, PostgreSQL, and MongoDB.
- **Object Oriented Programming:** Learned to design multi-class systems following OOP principles like encapsulation, inheritance, and polymorphism.
- **Version Control/Git:** Practiced frequent commits with meaningful messages to maintain code history. Demonstrated proficiency in Git operations such as branching, merging, rebasing, pull requests, and code reviews.
- **Clean Code:** Focused on writing clean, maintainable code. Techniques employed include refactoring, implementing clear naming conventions, and using inline comments to enhance code readability and understandability.
- **DevOps:** Deployed projects on AWS services including S3, EC2, and Lambda. Set up CI/CD pipelines using GitHub Actions for streamlined development and deployment.

## EMPLOYMENT HISTORY

### **Engineer / Surveyor, Freelance**, Apr 2023 - Present

- Collaborated with clients on multiple projects across London area to understand project requirements and objectives, ensuring effective communication.
- Conducted site surveys, utilising advanced surveying equipment/software.
- Prepared accurate and detailed survey reports, delivering comprehensive documentation to clients for informed decision-making.
- Applied engineering principles and best practices to resolve technical challenges encountered on-site, optimising project efficiency.

### **Director, [Harbour Contractors Ltd](#)**, Sept 2020 - Aug 2022 (2 years)

- Co-founded and managed a successful construction management firm that specialised in domestic projects, overseeing a £1.9M new-build project and an £800K extension for private clients.
- Demonstrated expert project management and organisational skills to take ownership of the entire process from start to finish.
- Managed multiple stakeholders, including sub-contractors, and provided regular updates to clients on progress and budget to ensure successful completion of each project.
- Transitioned from a large UK contractor to self-employment, showcasing self-motivation, adaptability, and a strong sense of accountability.

### **Civil Engineer, [Laing O'Rourke](#)**, Sep 2015 - Aug 2020 (5 years)

- Successfully managed quality processes, client relationships and technical challenges for the Hinkley Point C nuclear power station project while also mentoring junior engineers.
- Managed sub-contract installation of fit-out packages at the Liverpool Street Station job site as part of the Crossrail project.
- Provided geotechnical temporary works design solutions to support delivery teams across all UK projects through Group Technical Services.
- Completed a rigorous graduate development programme and relevant training courses to enhance my skills and knowledge in civil engineering.
- Delivered effective presentations and briefings that utilised my strong public speaking and communication abilities.

## INTERESTS / HOBBIES

- **Fitness, Hockey & Golf:** Committed to regular workouts for both mental and physical well-being. Weekends are often spent playing for a London-based hockey club or on the golf course, balancing team engagement with individual pursuits.
- **Sailing:** Passionate about sailing, a sport that demands intense focus, strategic thinking, and the ability to adapt to changing conditions. Embrace the challenges and tranquility of being on the water.
- **Reading:** Enthusiastic reader with a diverse palette, ranging from fiction and fantasy to motivational literature and Greek mythology. Reading provides a gateway to different worlds, ideas, and inspirations, enriching my understanding and creativity.