

Iain Hoolahan

Software Developer

SUMMARY

I am a software developer with a background in civil engineering and a passion for problem solving, learning, building and collaboration. I have recently enjoyed channelling this energy towards creating software solutions while completing the Makers Academy 16-week coding bootcamp. This experience further fuelled my desire to work in the tech industry with inspiring people creating innovative solutions in a collaborative environment.

KEY PROJECTS

Link	Description	Technologies
Topsy Tourist (Repo) Topsy Tourist (Website)	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! (Repo) Yahtzee! (Website)	A web-based Yahtzee game allowing single players to enjoy the classic dice game with modern UI features.	TypeScript, React, Tailwind CSS
StratoStruct (Repo) StratoStruct (Website)	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 (Repo) Find A Film (Website)	A film search web app 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.
- Showcased TDD skills in mock [tech test](#)
- Leveraged strong analytical skills and attention to detail for efficient debugging.

Agile Working

- Completed four engineering projects using Agile frameworks, including Scrum and Kanban.
- Conducted daily stand-ups, sprint planning, and retrospectives to ensure effective team communication.
- Utilised tools such as Jira, Miro, Trello and Slack for remote and in-person collaboration.

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EDUCATION HISTORY

Cardiff University

MEng Civil Engineering 2:1

2011-2015

SOFTWARE EXPERIENCE (CONTINUED)

Object Oriented Programming

- Learned to design multi-class systems following OOP principles like encapsulation, inheritance, and polymorphism.
- Proficient in class and method diagramming for system architecture.

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

- Adhered to SOLID principles to write clean, maintainable code.
- Employed refactoring, clear naming conventions, and inline comments to enhance code readability.

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

- Working on Gatwick Airport train station for roofing/cladding specialist sub-contractor.
- Collaborated with client 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 to 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 to 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.

TOOLS USED

GitHub | VS Code | Postman
TablePlus | PostgreSQL
MongoDB | MongoDB Atlas | AWS
Trello | Miro | Slack Microsoft Office |
Google Workspace | Jira

INTERESTS / HOBBIES

- **Fitness:** Regular workouts for mental and physical well-being.
- **Golf:** Enjoying weekends on the course, albeit often searching for the ball!
- **Sailing:** Engaging in a sport that demands focus, strategic thinking, and adapting to changing conditions.