Iain Hoolahan

Software Engineer

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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.

EDUCATION HISTORY

Cardiff University
MEng Civil Engineering 2:1
2011-2015

KEY PROJECTS

Link	Description	Technologies
Tipsy Tourist (Repo) Tipsy 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 Flim (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.

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 - 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.

TOOLS USED

- **Development Tools**: GitHub, VS Code, Postman
- **Databases**: TablePlus, PostgreSQL, MongoDB
- **Cloud & Deployment**: AWS Lambda/S3/EC2, GitHub Actions
- **Collaboration & Management**: Trello, Miro, Slack, Jira

INTERESTS / HOBBIES

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