

Iain Hoolahan

Software Engineer

📍 London
🔗 [LinkedIn](#)
✉ iain.hoolahan@gmail.com
☎ +44 7545 959137

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.

KEY PROJECTS

Title	Link	Description	Technologies
Tipsy Tourist	GitHub 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!	GitHub Website	A front-end application allowing single players to enjoy the classic dice game Yahtzee with modern UI features.	TypeScript, React, Tailwind CSS, AWS Amplify/Cognito/DynamoDB
StratoStruct	GitHub 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.js, Mapbox API
Find A Film	GitHub Website	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](#)

EMPLOYMENT HISTORY

Engineer Surveyor, [PF Geomatics](#), 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.
- Built the company website to increase online presence, showcasing projects and services.

Project Manager, [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.

EDUCATION HISTORY

Software Engineering Student, Makers Academy, Full Stack Software Development Course, Oct 2022 - Jan 2023 (4 months)

- **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.
- **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.
- **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.

MEng Civil Engineering, Cardiff University, Sep 2011 – Jul 2015 (4 Years)

- Achieved Second Class Honours Division One (2:1) Grade.
- Modules included: Engineering Analysis, Structural Mechanics, Computing, Civil Engineering Design, Continuum Solid Mechanics, Business Management, Hydraulics.

INTERESTS / HOBBIES

Avid sports enthusiast: I organise and play for a London-based cricket team, contributing to team strategy and coordination. My weekends are often spent engaging in outdoor activities like sailing, hockey, and golf, all of which sharpen my focus and adaptability.