

Iain Hoolahan

Software Engineer

📍 London

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🔗 [LinkedIn](#)

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SUMMARY

I am a software engineer with a background in civil engineering, passionate about problem-solving, continuous learning, and collaborative innovation. My intensive 16-week coding bootcamp at Makers Academy, along with various personal projects, has sharpened my technical skills and solidified my dedication to the tech industry. I am particularly interested in collaborating with forward-thinking individuals to develop innovative software solutions within a team-oriented environment.

KEY PROJECTS

<i>Title</i>	<i>Link</i>	<i>Description</i>	<i>Technologies</i>
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. Leveraged AWS Amplify to implement authenticated user sessions and score leaderboard.	TypeScript, React, Tailwind CSS, AWS Amplify, AWS Cognito, AWS 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. Users can view the driving route on a map. Admin can CRUD suppliers and products in the database.	MongoDB, Express, React, HTML, CSS, Node.js, Mapbox API, AWS Lambda, AWS S3
PF Geomatics	GitHub Website	A React frontend showcasing company projects and services, with a Serverless backend for handling API calls to Mapbox and SendGrid.	TypeScript, Node, React, Serverless, AWS Lambda, AWS S3, Mapbox API, SendGrid 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 in the London area to grasp project requirements and objectives, ensuring clear communication.
- Performed site surveys using advanced surveying equipment and software.
- Generated precise survey reports, providing detailed documentation for client decision-making.
- Utilised engineering principles to overcome technical challenges on-site, enhancing project efficiency.

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

- Co-founded and managed a successful construction management firm specialising in domestic projects, leading a £1.9M new-build project and an £800K extension for private clients.
- Demonstrated expert project management and organisational skills by taking full responsibility for projects from inception to completion.
- Managed various stakeholders, including subcontractors, and maintained regular communication with clients regarding project progress and budget adherence for successful project delivery.
- Successfully transitioned from a major UK contractor to self-employment, highlighting self-motivation, adaptability, and a strong sense of accountability.
- Built the company website showcasing projects and services.

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.