

IMAN WARSAME

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PROFILE

Award-winning engineer specialising in working with diverse stakeholders to create software to drive innovation at the intersection between the digital and physical worlds. Proven expertise in executing, communicating and managing software solutions. Committed to fostering team collaboration and growth, and a keen proponent of kaizen, consistently striving for continuous improvement.

EXPERIENCE

Senior Engineer

Ramboll

Sep 2019 – Present

- Winner of the 'Digital Rising Star' award at the TechFest awards (New Civil Engineer, 2023)
- Product owner for multiple software development projects where I was responsible for maximising business value, guiding the development team and communicating with stakeholders
- Lead developer of a 3D decking configurator app built using Three.js and React with an ASP.NET Core backend
- Lead developer of a Three.js based React app with an ASP.NET Core backend for rapid optioneering of UTX tunnels
- Lead developer of a platform to enable data-based design for infrastructure working with multiple stakeholders across different geographies. The front end was built with React and TypeScript with mapbox gl used to present geographical information. Used MUI for the UI framework as well as React Three Fibre and Speckle for visualising 3D geometry. Used MongoDB which connected to an ASP.NET Core backend. Used Vitest and xUnit for testing. Deployed using pipelines on Azure
- Lead developer for a project management and planning app built using React and MUI. MongoDB connected to ASP.Net Core backend deployed using Azure
- Led the development of a desktop application to automate the design of retaining walls. I led a team of four developers while managing the budget and backlog. I chose to develop the app using Avalonia where I employed an MVVM architecture. Implemented the use of an abstract factory pattern to implement efficient business

logic and to improve maintainability while keeping the solution extensible. Used Python to interact with external FEA program

- Developed WPF application for structural analysis of gantries. Developed feature for the analysis of steel base plates. Employed root-finding algorithms to assess the force in each individual bolt
- Developed WPF application for parametric generation of steel truss structures for motorway gantries. App was built as a plugin for Autodesk Advance Steel
- Line manager and mentor to junior members in the team
- Chartered Civil Engineer with the Institute of Civil Engineers
- Project and commercial manager for >£9,000,000 of engineering work on HS2

EDUCATION

University of Southampton

Civil Engineering (MEng) 2015 - 2019

Designed and built a 1kW water wheel to irrigate farmland in remote areas using supercritical flow

Ruislip High School

A Levels: Maths, Further Maths, Physics, Product Design 2008 – 2015

QUALIFICATIONS

Institute of Civil Engineers

Chartered Engineer (CEng) & Member of the Institute of Civil Engineers (MICE) 2023

The Football Association

FA Level One Coaching Badge 2023

SKILLS & INTERESTS

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|---------------------------|-----------------------------|
| - C# | - Three.js |
| - Python | - MongoDB |
| - JavaScript & TypeScript | - Agile & SAFe working |
| - ASP.Net Core | - Architectural photography |
| - WPF | - Football |
| - Azure | - Tennis |
| - React & Next.JS | - Historical fiction novels |
| - Node.js | - Grand strategy games |