Benedict Thompson

• 07964-629-416 • me@benjft.uk • github.com/benjft • linkedin.com/in/benjft

A full stack software developer with DevOps experience. Experienced working on projects of varying scales, from lightweight tools to complex systems. In my current role I work on adding new functionality to existing products, as well as aiding in the development of new products.

Experience

Software Developer, June 2023 – Present
Gold-Vision CRM, Northampton, Hybrid

- Full stack developer, specialising in MSSQL Server, .Net, and React.
- Contributed to development of the core CRM product.
- Developed features, from design to implementation, such as a middleware layer which automatically tracks and reports feature usage and uptake to inform business decisions.
- Implemented custom integrations and tools to meet customer requirements, such as a highly customizable OData API to allow customers to compile better reports.
- Planned project timelines and drafted proposals to secure approval.
- As part of the DevOps team, developed internal tooling and CI/CD processes, and performed performance analysis and optimisation.
- Reviewed and suggested improvements on changes made by co-workers (via pull requests in Azure) to ensure code was error-free and met internal standards.
- Provided guidance and mentoring to junior team members, demonstrating methods to improve analytical skills and developing effective solutions to problems.
- Lead agile ceremonies including daily stand-ups, and periodic reviews and retrospectives.
- Manage the team Kanban in Jira, ensuring all tasks being worked on are up to date, and estimating/curating new tasks from the backlog.
- Correspond with customers to refine requirements for bespoke work, and deliver/demonstrate completed projects while answering any questions.

Junior Software Developer, August 2022 – June 2023
Gold-Vision CRM, Northampton, Hybrid

- Worked on bugs in the core product to learn how things were structured and worked on core features that had been planned with the help of a mentor.
- Made use of personal development opportunities to improve my skills throughout our tech stack using online courses.

Education

Computer Science, BSc (Hons), Coventry University, 1st

Physics with Theoretical Physics, Undergraduate Diploma, University of Nottingham

Additional Learning

- MSSQL Mastering Performance Tuning Brent Ozar Online Courses, 2024
- MSSQL One Day Fundamentals, Brent Ozar Online Courses, 2023

Personal Projects

ProcVis ***(TypeScript; HTML; Sass)***
`benjft.uk/ProcVis`
A web app to teach computer architecture.
- Designed and implemented an emulator for a Von Neumann processor.
- Created a simple instruction set for programming the processor.
- Emulated the processor entirely in the browser with a user interface.
- Visualised the internal processes of the processor.
- Aimed to make computer architecture learning interactive and intuitive.
- **Skills:** UI/UX Design, Educational Technology

Locksley ***(C#; .Net MAUI; Go)***
A mobile app for tracking personal scores, handicaps, and grouping statistics in archery.
- Features both a client app and an API.
- Can be used to organise tournaments and shares scores/challenges.
- **Skills:** API Development, Mobile Development, Data Management

ScanSolver ***(Python)***
A tool designed to find optimal (fastest) orbits for ground scanning satellites in Kerbal Space Program.
- Implemented a numerical method to search for valid solutions.
- Efficiently homed in on solutions as the problem was not fully solvable algebraically.
- **Skills:** Algorithm Development, Simulation, Optimization Techniques

GreenFinger ***(C++; Arduino)***
CovHack 2021 submission, won 1st place.
- Greenhouse automation robot that monitors soil moisture levels and waters plants as needed.
- Configurable through a locally broadcasted website.
- Allows different zones to have varying thresholds set up easily.
- Displays a history of statistics (temperature, water levels, etc.).
- **Skills:** IoT (Internet of Things), Web Development, Data Logging and Analysis

DLA-SimTool ***(Go)***
A tool written to study lattice bound diffusion limited aggregation (DLA).
- Used monte-carlo techniques to simulate DLA.
- Characterised the properties of the resulting cluster.
- Studied higher dimensional aggregates.
- Analyzed how the fractal properties of the structure change with dimensionality.
- **Skills:** Statistical Analysis, Scientific Computing

ActiveMatterTool ***(Java)***
A tool to analyze the behaviour of “soft active matter” through simulation.
- Used monte-carlo techniques to simulate a tiled section of space.
- Captured behavioural changes in the simulated active matter as particle density increases.
- **Skills:** Physics Simulation, Computational Physics