

Thomas Gascoyne

Graduate Software Engineer

Profile

Graduate Software Engineer with 1 year of industry experience building full-stack applications using React, Node.js, and AWS. Skilled in designing scalable infrastructure and automating workflows, with a track record of delivering robust internal tools in agile environments. Seeking to apply technical and collaborative skills in a dynamic development team.

Education

BSc Computer Science (First-Class Hons)

University of Liverpool | 2019-2023

Employment Experience

Development QA Engineer

Feral Interactive | London | 2021-2022

- Led development for an automated benchmarking system, orchestrating tasks across distributed hardware via SSH — contributing to scalable internal test infrastructure.
- Developed and maintained frontend plugins using React.js with TypeScript, deployed within Atlassian Cloud, improving cross-team workflows for QA and development.
- Aided in automating performance and stress testing of software across hardware configurations to implement default settings.
- Performed Quality Assurance testing on games and tools to ensure software quality and stability across multiple platforms.

Projects

Self Hosted Cloud

Tech Stack: Node.js • JavaScript • MongoDB • HTML • CSS

- Developed a secure and privacy-oriented cloud storage solution, allowing Users to upload, view and manage files in an intuitive web interface.
- Data stored and retrieved from local MongoDB instance, interfacing with a Node.js backend to query and stream data to the client.
- Rotating JWT tokens provide a secure, privacy-respecting authentication method for protected API routes.

Portfolio Web App

Tech Stack: React • Node.js • AWS

- A React SPWA which showcases my experience, skills, and personal projects - hosted on Amazon S3 with Cloudfront distribution.
- Interfaces with GitHub API to dynamically retrieve project information.

Chess Engine

Tech Stack: C • SDL Renderer

- Developed a Chess Engine that employs bitboards, alpha-beta pruning, and Zobrist hashing to make informed moves against a competent opponent.
- Optimised for efficiency, advanced bit manipulation is used for fast move computation, and scoring heuristics with move ordering allow the engine to look further ahead.

Contact

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Technical Skills

Frontend

React.js • HTML/CSS • JavaScript • TypeScript

Backend

Node.js • Flask • Express.js • C/C++

Database

MySQL • sqlite • NoSQL • MongoDB

DevOps & Tools

AWS • Docker • Git • CI/CD • Jira • Confluence

Other Languages

Python • Swift • Bash • Perl • C#

Personal Skills

- Strong communication and collaboration abilities, adept in cross-team contexts.
- Creative problem solving with a systematic, persistent approach.
- Enthusiastic learner, committed to supporting and learning from peers.

Achievements

ConnectTVT Green Meets Grey IoT Competition Winner

Led software development for a team project from concept to prototype, winning mentorship, funding, and a pitch opportunity at Telefonica Labs. Developed a working software proof-of-concept using agile methods and led sprint reviews and technical presentations.