

Dan Relvas - Senior Software Engineer

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Profile

I am a deeply passionate and insatiably curious Senior Software Engineer with over 10 years of experience in designing, building, testing, deploying and securing web applications. I strive to be affable, well learned, mentor those around me and challenge my beliefs at any opportunity that I can.

Skills and Interests

Software

I've worked across many areas of software including web systems, desktop apps, mobile apps, and embedded systems (I tinker with Arduinos). I presently specialize in web applications, applying my broad experience to build problem-solving products. I enjoy learning new frameworks, libraries, and technologies in my spare time and exploring how they can enhance my professional work.

Design

I've been drawn to art since childhood and bring that creativity to my work. I value a product's look and feel as much as its code and have a solid grasp of UX and UI concepts and best practices, having designed personal projects and contributed to commercial design efforts throughout my career.

DevOps

The foundation of any software developer in my opinion! I enjoy streamlining my workflow with CLI tools, scripts and am comfortable with Unix and Unix-like systems alike. I enjoy integrating SecDevOps practices into my workflows; automating builds, code quality, testing and deployment pipelines as well as galavanting as the security blue and red team from time to time.

Collaboration

I believe in the power of collaboration; having led a three-engineer team to deliver and maintain a product and regularly working with product teams and stakeholders. I strive to be highly collaborative and strong in soft skills. I enjoy writing documentation, fostering team-driven processes, and leading initiatives from proposal to rollout, first earning buy-in through clear communication and iterative feedback.

Education and Certificates

Applied Science - A2

ICT - A2

Geography - AS

Product Design - AS

GCSEs - 8 A* - Cs

City & Guilds - 2 Merits

Proficiencies

HTML	CSS	JavaScript	NodeJS	Typescript	NextJS	React
VueJS	ExpressJS	Jest	Cypress	CI/CD	AWS	Linux
MacOS	GitHub	Sentry	Snyk	MongoDB	Postgres	ORMs

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Experience

December 2021 to Present **Invision360** - Senior Full Stack Engineer (from June 2024)

Full Stack Engineer (previously)

Role

I joined Invision360 as the first permanent engineer. I chose to join Invision360 for the social mission and how I could use my skill set to really make a difference in people's lives. I initially worked with a team of consultants but found myself in the unique position to help grow an in-house team. I had the privilege to inform how we built our new software, mentor more junior engineers and influence our team culture as we grew. I helped co-architect a new centralised solution to replace our aging and fragmented solutions. I have also been involved in architecting and building our new AI solution, using many new technologies in AWS that has pushed my understanding of AI and machine learning leaps and bounds.

Technology

We have employed an interesting range of technologies where the needs of our products have changed over time. Some frontend libraries include React, Vue and NextJS with and without various UI libraries. Our backend applications are solely NodeJS utilising Express and either DynamoDB or PostgreSQL. We have utilised microservices and currently monolithic architectures. More recently I have been learning and utilising Amplify Gen 2 alongside the many other built-in AWS integrations. Lacking a DevOps or Platform Engineer role, we Product Engineers actively provision and maintain all infrastructure on AWS, architecting software stacks and keeping system patches up to date.

June 2021 to December 2021 **Verafide** - Full Stack Developer

Role

As a full stack web developer, I was involved in developing the Verafide platform MVP, as well as developing payment features in a later release and have now been tasked with maintaining the platform in general.

I was also tasked with developing our public SDK, for use by both organisations and clients. This taught me a lot about how open source code should be written and relied heavily on my security knowledge when designing APIs. I also continue to work on SETL projects as Verafide is a subsidiary of SETL.

Technology

The technologies I work with are; React with Typescript and UI libraries on the UI, NodeJS with NestJS and Typescript on the server side, as well as MongoDB, Redis and Postgres.

July 2017 to June 2021 **SETL** - Full Stack Developer

Role

As a full stack web developer I was involved in designing, building and maintaining SETL's back-office projects. The projects are built directly atop SETL's Blockchain

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technology, leading to some complex systems stacks, APIs and a demand for excellent cross-team communication.

At SETL I took my security knowledge to the next level, with support from the company and some self learning. I also had some experience in delegating and managing work with other developers, having been placed as a sub team lead for a project for a year and a half.

Technologies

Some of the technologies I used are; Angular and React with Typescript and UI libraries, PHP and NodeJS with NestJS while using websocket and restful APIs, and MongoDB, Redis, MySQL or PostgreSQL where necessary.

Dec 2015
to
July 2017

GFM - Junior Web Developer

Role

As a junior web developer, I was initially tasked with supporting other developers and maintaining our web games, promotions and marketing sites. I quickly gained trust in my work and was tasked with independent work and direct communication with our clients.

Technologies

We used a range of technologies; ranging from Perl CGI sites backed by OracleDB to more modern PHP sites using WordPress or Laravel as well as AngularJS or BackboneJS web games all backed by MySQL and Redis.