

DAVE HOLST

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As a Full-Stack Developer, I have a deep passion for problem-solving and thrive in collaborative work environments. I am constantly driven to learn new skills and embrace a generalist approach, taking on any challenge that comes my way. With a well rounded education, I bring a diverse range of expertise to the table. My development experience spans across various domains, including frontend and backend development, serverless architecture, AWS, DevOps, Infrastructure as Code, IoT hardware and software design, cloud computing, and Linux administration. I am highly self-motivated and committed to developing well-thought-out solutions using relevant technologies.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, CSS, HTML, PHP, Arduino C, Go

Tools: Node, Jest, MongoDB, MySQL, PostgreSQL, Git, Pulumi, Docker (including SWARM), AWS (Dynamo, Lambda, CloudFront, Route53, SNS/SQS)

Library / Frameworks: React, Svelte, Django, Next, Remix, Express, JQuery, Handlebars, Emotion, Bootstrap, Bulma, Tailwind

Applications: Figma, Fusion 360, SolidWorks, AutoCAD, Adobe Suite, Affinity Suite

PROJECTS

Last Yard | lastyard.com

In-store marketing automation platform with a focus on printed and digital shelf edge ticketing.

Tools: Python, Django, DRF, Rabbit, Celery, React, Typescript, Javascript, Tailwind, JQuery, Foundation, Docker Swarm, AWS

thewest, PerthNow & Seven News | thewest.com.au perthnow.com.au 7news.com.au

Monorepo that serves all 3 mastheads plus a range of supporting serverless microservices.

Tools: Typescript, Node, React, Express/Fastify, Emotion, Jest, Postgres, AWS, Pulumi, Nx

thegame | thegame.com.au

React based sports tipping platform for both AFL and Cricket.

Tools: Typescript, Node, React, ReactQuery, Fastify, Emotion, Jest, AWS, Pulumi, Nx

Remix short URLs | <https://github.com/daveholst/remix-url-shortener> | <https://link.dh.wtf/>

Experimental app using the Remix.run framework to achieve a performant SSR app in AWS Lambda with a CloudFront cache layer.

Tools: Typescript, Remix.run, stitches, vitest, esBuild, Lambda, DynamoDB, CloudFront, Pulumi

EXPERIENCE

Product Engineer *Last Yard*

August 2022 - Current
Perth, WA

As a Product Engineer at Last Yard, I am responsible for overseeing the retail marketing platform in its entirety. This involves utilising a React frontend served from Django to provide cutting-edge signage and marketing solutions for leading retailers in Australia. In my role, I collaborate closely with designers to implement both frontend and backend solutions for both existing features and new enhancements. Additionally, I frequently provide on-call support to the platform team, ensuring the smooth functioning of the infrastructure.

Key Accomplishments:

- Enabled developers to work on the stack locally with arm(apple silicon) devices.
- Prototyping a visual programming tool that allowed non technical users to write custom business rules.
- Built out a new design system that was compatible with both react and django templates with a focus on accessibility, enabling the product to be WCAG certified.
- Implemented visual regression testing on our component library.
- Designed and implemented a new Incident Management process and supporting tooling.

Full Stack Developer *Seven West Media*

August 2021 - August 2022
Perth, WA

In my role as a full stack developer, I had the opportunity to work on a diverse range of projects, including The West, Perth Now, Seven News, The Game (sports tipping platform), and 18 regional news sites. Our cutting-edge tech stack utilised TypeScript throughout, with a React frontend. I actively participated in infrastructure and architecture planning, collaborating closely with our designers to create seamless user-facing solutions. From end to end, I was responsible for all aspects of our systems, ensuring their smooth operation and optimal performance.

Key Accomplishments:

- Quickly picked up new technologies including Nx Monorepos, Typescript, AWS and Pulumi.
- Working front to back on a system that serves 1.4million unique users daily.
- Building out a serverless live blogging platform.
- Experience writing both unit and visual regression test suites.

High School Teacher - Design
Mandurah Catholic College

2015 - 2018 & Casual 2021
Mandurah, WA

As an educator, I had a strong focus on delivering design education at all levels, including ATAR. I dedicated myself to teaching comprehensive design principles and techniques to students, guiding them through the intricacies of the subject. I tailored my teaching approach to suit the individual needs of each student, whether they were beginners learning the basics or advanced students looking to refine their skills.

Key Accomplishments:

- Top performing school in ATAR Design four years in a row with high student numbers.
- Working with SCSA to mark and provide feedback on ATAR exams.
- Strong collaboration within the Technology & Enterprise department as well as school wide.
- Helping with school extra-curricular projects, activities and camps.

High School Teacher - Design, Materials & ICT
John Tonkin College

2013 - 2014
Mandurah, WA

John Tonkin College was my first teaching post, where I experienced tremendous personal growth and learning. I quickly embraced the opportunity to teach subjects outside my university studies, such as automotive and building & construction. During my time at JTC, I contributed to modernising the curriculum by introducing CNC Laser cutting and vinyl decal fabrication and application into the design syllabus. I also collaborated with the Head of Department to create shared templates for course planning, record-keeping, and assessments, promoting efficiency and consistency.

Key Accomplishments:

- Introduction of CNC machining into the Design curriculum. Laser and Vinyl cutting.
- Wide range of subjects; Automotive, Building & Construction, Design, Woodwork, Metalwork and Computing.
- Redesigned department curriculum planning docs to streamline curriculum writing to meet new standards.
- Working with our disengagement programme to help students struggling with mainstream schooling.

Owner**Holst Solutions****2014 - Current****Mandurah, WA**

Over the past ten years, I have successfully operated Holst Solutions as a side project. The primary goal of this business is to integrate software and hardware solutions into various contexts, tailored to meet each client's specific needs. This encompasses tasks ranging from building web pages for small businesses to providing CAD design and writing tool paths for CNC machinery.

Achieving success in these projects hinges on establishing a smooth handover process with clients, which includes providing comprehensive documentation and training. By ensuring clients have the necessary resources and knowledge, I strive to empower them to effectively utilise and maintain the solutions provided by Holst Solutions.

Key Accomplishments:

- Helping schools integrate CNC machinery into their curriculum.
- Assisting schools with manufacturing processes suitable for the classroom. 3D printing, laser cutter, vinyl cutting and sublimation printing.
- Helping clients design and draft components for CNC manufacture including tool pathing and cutting speeds for both routers and laser cutters.
- Modernising small business web pages by moving them from WordPress and building bespoke admin dashboards to simplify data manipulation on the site.

QUALIFICATIONS

Certificate, Full Stack Web Development 2021 – University of Western Australia

Certificate, Web Design & Development 2020 – Codemasters Institute

Diploma, Mechanical Engineering 2019 – North Metro TAFE

Certificate IV, Training and Assessment 2014 - Skills Strategies International

Bachelor, Design 2012 – Edith Cowan University

Bachelor, Education 2012 – Edith Cowan University