

## Davey Mason | Web & AI Integration Specialist

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### PROFESSIONAL SUMMARY

Highly motivated and experienced full-stack engineer with a proven track record of building user-friendly, secure, and AI-enhanced web applications. Expertise in React with proficiency in back-end technologies like Python and PHP, an academic specialisation in HCI coupled with a passion for seamless UX and cybersecurity best practices. Demonstrated ability to integrate and deploy AI solutions across diverse mediums, from portable WordPress plugins to robust cloud-based solutions using Google Cloud and Vertex AI. Collaborative and adaptable, thriving in Agile, DevOps, and Lean UX environments.



### EXPERIENCE

#### Front-end & UX Engineer | [ReelMetrics](#) | Leiden, Netherlands (Hybrid) | 2021-2024

- Led end-to-end prototyping processes, seamlessly integrating UX/UI designs based on stakeholder requirements.
- Delivered scalable and efficient solutions with React (JSX, ES6, React Router), Storybook, Jest, REST APIs, Webpack, SWC, Babel, and Ruby on Rails.
- Redesigned the search functionality to provide enhanced data previews, reducing average user session times and earning positive user feedback.
- Engineered React-based digital tools for slot machine reconciliation, improving data accuracy from under 80% to over 90%.
- Resolved performance bottlenecks on pages with large datasets, cutting loading times from 45 seconds to under 15 seconds pre-cache.

#### Co-Founder & Technologist | [FatHead Solutions](#) | Remote | 2019 - 2021

- Developed an LMS during COVID for a Chinese university, which was tricky to navigate but ultimately successful with many students showing great appreciation.
- Developed an AI-powered WordPress plugin (jQuery, PHP, CSS) for bilingual educators to create culturally sensitive lesson plans in multiple languages.
- Led multiple ed-tech projects through various stages of testing with stakeholders ranging from kindergarteners to experienced University professors.

#### Web Developer (Client-Facing) | [DEITG](#) | Cork, Ireland (Hybrid) | 2018-2019

- Designed and developed 50+ websites using PHP, CSS, JavaScript, and MySQL, while modernizing legacy PHP applications from version 5.6 to 7.x to enhance security and performance. Contributed to large-scale web applications with jQuery, Bootstrap, and CakePHP, ensuring seamless user experiences.
- Streamlined web management workflows, standardizing processes to boost efficiency and support DevOps practices, improving project delivery speed and quality.

## TOOLS, TECHNIQUES & TECHNOLOGIES

- **Agile & UX Methodologies:** Agile, DevOps, Lean UX, Design Thinking, User Research, A/B Testing, Prototyping, design tool of choice is Figma
- **Front-End:** HTML, HTMX, CSS, JavaScript, jQuery, React
- **Styling:** Bootstrap, Material Design, Tailwind,
- **Building & Testing:** Webpack, SWC, Vitest, Jest, Storybook
- **Back-End:** Javascript (Node.js, Express, Next), Python (Flask, FastAPI), Ruby (Rails), PHP (CakePHP, CodeIgniter, WordPress),
- **DevOps & Cloud:** Git, GitHub, Docker, Kubernetes, TeamCity, GitHub Actions, GitLab, AWS (EC2, EKS, S3, Lambda), Google Cloud, Alibaba cloud
- **AI/ML Frameworks & APIs:** OpenAI API, Google Cloud Vertex AI, LangChain, Hugging Face, Prompt Engineering

## PROJECTS

- Gen AI invoice sorter using React, Flask and Vertex-Ai from Google Cloud.
  - Submitted for the [DevPost GenAi Hackathon](#) [Code](#)
- Gen AI Culturally sensitive lesson planner using jQuery & Php
  - Released Open Source, can be [used for free](#). [Code](#)
- Gen AI chatbot built using React & Flask using OpenAI's API
  - The Innkeeper is prompted to help manage crises [Code](#)
- Reconnaissance CLI tool written in Python to help automate compliance.
  - Packaged up and [deployed via PyPi](#) [Code](#)

## EDUCATION

- **M.Sc. Computer Science (Final Year)** *Georgia Institute of Technology* (2025)
  - Javascript, Python, Java, C# & Php for coursework in HCI, educational technology, health informatics (FHIR), and cybersecurity.
- **B.Sc. Digital Technology & Design** *Dublin Institute of Technology* (2018)
  - HTML, CSS, Javascript, Php, SQL, jQuery, Bootstrap, Codeigniter, Wordpress, Angular, Phonegap, as well as UX/UI & Concept Design.
- **B.Sc. Applied Physics & Instrumentation** *Cork Institute of Technology* (2014)
  - Practical topics included Matlab, Vb.net, Ladder logic programming on PLCs, Automation, Networks, Visual programming with Labview & Astrophysics.

## RELEVANT CERTIFICATIONS

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|---|---------|-------------|
| ● <a href="#">React Native Professional Certificate</a> | META    | (Dec, 2024) |
| ● <a href="#">Javascript Security Specialisation</a>    | InfoSec | (Nov, 2024) |
| ● <a href="#">React Professional Certificate</a>        | META    | (Apr, 2024) |
| ● <a href="#">MERN Web &amp; Mobile Bootcamp</a>        | NuCamp  | (Sep, 2021) |

## OTHER INTERESTING POINTS

- Taught over 10,000 students in China across two tenures (2014–2016 & 2019–2021)