

# David Melvin

## Senior Full Stack Engineer

Estonia, Tallinn | dm85.pro@gmail.com

### Summary

Senior Full Stack Developer with over 8 years of hands-on experience building and maintaining high-impact products across FinTech, E-commerce, SaaS, HealthTech, and Cybersecurity industries. Expert in React, Node.js, .NET Core, Laravel, Python, and cloud platforms such as AWS and Azure. Proven ability to deliver end-to-end solutions, from architecture to deployment, with a focus on security, performance, and scalability. Strong background in remote work, cross-functional collaboration, and agile product delivery.

### Technical Skills

**Frontend:** React.js, TypeScript, JavaScript (ES6+), Next.js, Vue.js, Angular, Tailwind CSS, Styled Components, Material UI (MUI), Bootstrap, Jest, React Testing Library, Cypress

**Backend:** Node.js, Express.js, NestJS, Laravel, .NET Core, Spring Boot, Django, FastAPI, Flask, GraphQL, REST APIs, Prisma, TypeORM, Sequelize

**Databases:** PostgreSQL, MySQL, MongoDB, Redis, SQLite, SQL Server, Firebase Realtime DB, Firestore, DynamoDB, Amazon Aurora

**DevOps & Cloud:** Docker, Kubernetes, AWS (Lambda, EC2, S3, RDS), Azure, Vercel, Netlify, GitHub Actions, GitLab CI/CD, CircleCI, Jenkins

**Other Tools:** OAuth2, JWT, WebSockets, Stripe, Shopify APIs, Firebase, Supabase, Webhooks, Git, GitFlow, Jira, Notion, Trello

### Work Experience

#### Senior Full Stack Developer

*Dark Horse | England, Manchester | Full-Time | Remote*

*May 2021 – Jan 2026*

Industries: FinTech, SaaS

Platform: Enterprise-grade fintech SaaS platforms

Tech Used: React.js, Node.js, .NET Core, Python, PostgreSQL, AWS, Docker, GitHub Actions

- Built and maintained full-stack fintech platforms serving over 2M users monthly.
- Improved app load times by 40% through React optimization and efficient API architecture.
- Automated CI/CD with GitHub Actions, cutting deployment time by 75%.
- Secured REST APIs with OAuth2 and implemented strict RBAC controls.
- Led migration of monolithic architecture to microservices, improving team scalability and deploy times.
- Worked closely with product and design teams to define technical requirements and roadmap items.
- Mentored junior developers through code reviews and pairing sessions, raising overall team quality.
- Instrumented monitoring and alerting via AWS CloudWatch and Prometheus to improve system observability.

## **Mid Senior Full Stack Developer**

***Roamler | Amsterdam, Netherlands | Contract | Remote***

***Jul 2021 – Apr 2022***

Industries: E-Commerce & Retail Tech, HealthTech

Platform: E-commerce portals, telemedicine apps

Tech Used: Laravel, Vue.js, React, PHP, Node.js, MySQL, Azure, Docker

- Developed scalable e-commerce systems and telemedicine apps serving 500K+ monthly visitors.
- Enhanced backend services using Laravel, improving checkout speed by 30%.
- Implemented Docker and Azure CI/CD pipelines, reducing system downtime to under 0.01%.
- Integrated real-time APIs for telehealth services ensuring HIPAA compliance.
- Optimized backend queries and indexes, improving catalog load times by 45%.
- Wrote automated integration tests across key user flows, increasing test reliability by 70%.
- Built payment and inventory modules integrated with Stripe and BigCommerce APIs.
- Conducted regular security audits and implemented rate-limiting on public endpoints.

## **Full Stack Developer**

***Nortal | Tallinn, Estonia | Full-Time | Hybrid***

***Jul 2020 – Sep 2021***

Industries: Media & Content / Streaming, Cybersecurity

Platform: Streaming content platforms, cybersecurity dashboards

Tech Used: Node.js, React.js, Python, MongoDB, Redis, AWS, Kubernetes

- Created content-streaming platforms handling peak loads of 1M concurrent users.
- Built cybersecurity dashboards for real-time threat monitoring reducing incident response time by 60%.
- Used Redis caching and Kubernetes clusters to achieve sub-50ms latency.
- Improved platform scalability via microservices architecture in Node.js and Python.
- Designed and deployed analytics modules to measure engagement and platform usage.
- Wrote GraphQL APIs to support real-time metrics and user customization features.
- Created automated backup and restore scripts for MongoDB and Redis environments.
- Collaborated with DevOps to optimize Kubernetes clusters for CI/CD environments.

## **Web Developer**

***Concise Systems | Tallinn, Estonia | Full-Time | On-site***

***Mar 2019 – May 2020***

Industries: EdTech, AdTech / Marketing Tech

Platform: Educational LMS and Ad platforms

Tech Used: Vue.js, Node.js, PHP, MongoDB, Firebase, AWS, GitLab CI

- Developed interactive LMS platforms supporting 150K+ students annually.
- Improved platform engagement by 50% with real-time features using Firebase.
- Automated ad campaign analytics and reporting tools saving 20+ hours weekly.
- Ensured responsive UI across all platforms with Vue.js, reducing bounce rates by 35%.
- Developed visual reporting dashboards with Chart.js and D3.js for real-time campaign data.
- Converted legacy jQuery codebase into Vue.js with Vuex, improving maintainability.
- Refactored components to increase Lighthouse scores and mobile usability.
- Deployed micro-frontends architecture to separate student/teacher portals in EdTech suite.

## Education

### Bachelor of Computer Science

Tallinn University of Technology | Tallinn, Estonia

Sep 2013 – Oct 2018

### Software Development Academy

Tallinn, Estonia

Sep 2020 – Apr 2021

## Projects

### Beamdex Swap (2025)

- Developed core swap UI components with React + TypeScript, ensuring fast and intuitive trading flows.
- Integrated Web3 wallet connectivity and contract interactions using Beam/Web3 SDKs.
- Improved transaction feedback UX and optimized state management for real-time blockchain updates. Solartheory

<https://app.beamdex.xyz/swap>

### 3D Frontend (2024)

- Built an immersive 3D visualization with smooth camera controls and optimized rendering.
- Implemented shaders, lighting, and animations for enhanced visual realism.
- Leveraged Vite + React for high performance and rapid iteration.

<https://solartheory-frontend-three.vercel.app/>

### FindMyPuppy (2023)

- Built a pet adoption platform that connects shelters with potential pet parents, featuring advanced search and matching algorithms.
- Focused on user experience and optimizing the matching process for better adoption outcomes.

<https://findmypuppy.ro/>

### Eco Hop (2023)

- Developed a scooter rental app with React, Redux, and SCSS, integrating microservices, IoT communication, and payment processing.
- Implemented AWS S3 for file storage and improved efficiency in vehicle management for partners and suppliers.

<https://ecohop.ro/>

### YEPP (2022)

- Contributed to Yepp, a sports prediction platform, focusing on optimizing mobile application performance and refining UI/UX for a seamless user experience.
- Worked with React and SCSS to ensure high responsiveness across mobile devices.

<https://yepp.com/app>