

# David Murphy

Software Engineer | React, Node.js, Django | AWS, Supabase

✉ sam986829@gmail.com 📞 +353899559589 📍 Cork, Ireland

🌐 <https://www.linkedin.com/in/david-murphy-869516121/>

## Profile

---

Senior full-stack engineer with 8+ years of experience building scalable applications across healthcare, fintech, defense, and enterprise SaaS. Expert in JS/TS, C++, Python, Node.js, Django, React, Next, WebRTC, distributed systems, and cloud-native architectures.

Proven ability to design complex systems from scratch, deliver production-ready solutions under pressure, modernize legacy stacks, improve reliability, automate deployments, and support high-volume platforms. Trusted senior contributor known for problem-solving, rapid execution, and delivering robust software with minimal oversight.

## Professional Experience

---

**Software Engineer**, 8 West Consulting [📄](#)

08/2019 – 02/2026

Cork, Ireland

- Guided 5+ development team through secure build and deployment workflows across classified environments.
- Improved release efficiency by streamlining CI/CD pipelines used for controlled deployments.
- Collaborated with cross-functional teams (manufacturing, QA, security) to translate operational requirements into scalable backend designs and deliver features on schedule using Agile/Scrum.
- Built and maintained backend services for industrial and manufacturing adjacent systems, delivering high-availability APIs for internal and external stakeholders.
- Developed and optimized large-scale React/TypeScript applications on AWS and Azure used across national healthcare operations.
- Improved application performance and front-end stability through targeted architectural refinements.
- Authored comprehensive automated test suites, increasing reliability and reducing regression issues.
- Collaborated with product, design, and engineering teams (30+ members) to align technical delivery with roadmap goals.
- Applied design thinking methodologies to build user-centered workflows and prototypes.
- Designed RESTful APIs and integrated third-party services such as payment gateways and social media logins.
- Implemented scalable databases using MongoDB and MySQL, improving data retrieval speed by 30%.

## Full Stack Engineer, Apple [↗](#)

09/2016 – 09/2018

Cork, Ireland

- Designed and built scalable backend APIs and core business logic to support user onboarding, content/feature management, and secure account workflows (Node.js/TypeScript or Java, REST).
- Implemented responsive, SEO-friendly front-end pages and optimized site performance to improve Core Web Vitals and conversion rates (React/Next.js, SSR/SSG, caching).
- Built a maintainable data layer with clean schemas, migrations, and query optimization to support growth and reporting needs (Supabase/MySQL, ORM).
- Integrated third-party services for email/notifications, analytics, and payments where applicable, ensuring reliable error handling and observability (webhooks, retries, idempotency).
- Partnered with product and stakeholders to define milestones, prioritize roadmap items, and deliver iterative improvements based on user feedback and data.

## Intern Full Stack developer, Fexco [↗](#)

05/2016 – 08/2016

Cork, Ireland

- Developed an internal order management system using MERN stack, improving scalability and compliance with deadlines by 97%.
- Enhanced data protection and security using Node.js, JavaScript, PHP, and Python.
- Managed expansive databases with Node.js and PHP. Optimized performance and reduced software maintenance expenses by 15% in 12 months.
- Optimized database performance with Node.js and PHP, reducing software maintenance expenses by 15% in 12 months.
- Wrote a Python script to automatically extract data from TicketMaster's free api and added to Google Sheet.

## Education

---

### Bachelor's degree of Computer Science, University College Cork (UCC) [↗](#)

10/2015 – 05/2019

Cork, Ireland

- Posture recognition for engagement detection

This was my final year project which was completed during my time in UCC. I

employed a machine learning classifier that took joint data from a user and outputted it's predicted posture class (pose). I won best Final year project at the open day from the Intel and scored highly in the grading of the project also.

I implemented the decision tree algorithm and took depth data from the Kinect depth sensor as my input data stream. In its final form the classifier could take real time data from the sensor and output predicted the posture class of the subject at 60fps.

## Skills

---

### Programming Languages

C/C++, Python, JavaScript, TypeScript, PHP, Java

### Cloud & DevOps

AWS EC2, AWS Lamda, Google Cloud, Azure, Netcup, Docker, Git, Github, CI/CD

### Framworks

React, Next, Node.js, Nest.js, Vue.js, Angular, Django, Flask, FastAPI, WebRTC

### Databases

PostgreSQL, MongoDB, MySQL, DynamoDB, SQLite, Redis

## Languages

---

- English

## Projects

---

### **Solang** [↗](#), *Solidity IDE for Stellar Network*

- Build a responsive Next.js frontend with Web3 integration for seamless user interaction with Soroban contracts.
- Developed a Node.js backend that indexes on-chain events from the Stellar Horizon API and provides real-time data to the frontend.
- Contributed open source to GitHub, including the contract, frontend, and deployment scripts, and contributed to the CI/CD implementation.

### **AutoCTRL** [↗](#), *Real-world Automation platform*

Developed decision engine using Node.js, React, Websockets, Socket.io [↗](#), mDNS, and C/C++ on Arduino platform.