

# David Smith

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<https://github.com/StartingDreams>

## Relevant Experience

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Lead Software Engineer with 20+ years of experience designing, developing, and implementing complex software applications. A passionate proponent of servant leadership and mentorship. Demonstrated excellence in many technologies, covering everything from the backend to the front end, including React, Typescript, C#, Node, Next, Vue, SQL, NoSQL, GraphQL, Redis, and AWS.

## Work Experience

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### Swarm Technology Solutions

May 2022 – July 2023

#### Lead Software Engineer

- Led twelve senior engineers embedded in four different client's teams through the successful rewrite of CNN's core CMS which serves over a billion monthly visits and 200+ editors daily, increasing stability and decreasing infrastructure costs
- Conducted biweekly cross-team meetings, fostering communication and encouraging frequent collaboration between teams while actively deconstructing knowledge silos
- Tech Stack: React, Vue, Clay Framework, GraphQL, PostgreSQL, NodeJS, Docker, AWS, Kafka, Kubernetes

### OPIE Software

Feb 2019 – Apr 2022

#### Lead Software Engineer

- Designed a standalone HIPAA-compliant SaaS enabling patients, clinicians, and physicians to simultaneously and asynchronously enter data into the same form using different devices and locations, with support for third-party integration and aggregate data reporting
- Provided direction as the subject matter expert and liaison with upper management
- Mentored junior developers through our new tech stack and technologies by teaching classes and coaching developers through one-on-one pair programming sessions
- Designed and implemented CI/CD pipeline utilizing Jenkins to automatically push updated branches to QA, Staging, and Production, along with Grafana status reporting and alerts
- Tech Stack: React, Jira, Typescript, Material-UI, NextJS, NodeJS, DynamoDB, Redis, Lambda, GraphQL, SQS, Kubernetes, Jenkins, Grafana, Jest

#### Senior Software Engineer

- Designed file upload service enabling internet access to files stored on the client's office network
- Created a library of reusable UI components improving user experience across multiple features
- Tech Stack: React, Typescript, C#, SQL Server, Docker, XUnit, Jest, Jasmine, Selenium

## SharpSpring

Feb 2016 – Jan 2019

### Senior Software Engineer

- Designed and contributed to the development of a versatile and user-friendly component-based drag-and-drop system allowing clients to easily create custom landing pages and email templates with dynamic content powered by a broad range of adjustable triggers tied to lead data
- Reduced regression and bug tickets by implementing a staging test environment with automated E2E testing with simple switching between staging and development branches
- Dramatically reduced lead report load times by refactoring the underlying code from an  $O(n^2)$  solution to an  $O(n)$  solution
- Implemented data migration service silently transforming terabytes of lead data from MySQL to MongoDB behind the scenes without causing downtime for the client
- Increased total code coverage from 30% to 80% over six months by implementing many tests, then convinced the team to enforce that coverage going forward at the repo level
- Tech Stack: PHP, MySQL, Redis, JavaScript, jQuery, Backbone, Selenium, Google Cloud

### Software Engineer

- Achieved a 90% reduction in infrastructure costs for an IMAP syncing microservice by single-handedly transforming the overly complicated service into a Go microservice
- Reduced the Content Editor's bug-related tickets by 50% by refactoring the feature from a single large bundle of unstructured jQuery into clean components with clear roles
- Tech Stack: PHP, Go, MySQL, Redis, JavaScript, jQuery

## Strictly E-Commerce

Jul 2006 – Feb 2016

### Full-Stack Software Engineer

- Sole software engineer from the company's founding to over \$4 million in annual e-commerce sales, responsibilities included designing and developing the custom website, cyber security, and managing all tech infrastructure
- Tech Stack: PHP, MySQL, Apache, Redis, JavaScript

## Skills

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Languages	JavaScript, Typescript, C#, PHP, SQL, CSS, HTML
Frameworks	React, NextJS, Material-UI, Express, Vue, Bootstrap, Kafka
Databases	SQL Server, MySQL, PostgreSQL, GraphQL, Redis, NoSQL
Tools	Git, Docker, Jenkins, Grafana, NodeJS
Testing	Jest, Jasmine, Selenium, XUnit, Moq
AWS	Lambda, S3, EC2, SQS, SNS, DynamoDB, Elastic Beanstalk
Google Cloud	Compute Engine, Kubernetes, GKE, App Engine, Pub/Sub, Cloud Functions