

## DAVID THOMPSON

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Location: New York, NY | Portfolio: [davidthompson.dev](http://davidthompson.dev) | GitHub: [github.com/dthompson](https://github.com/dthompson)

## PROFESSIONAL SUMMARY

Highly experienced full-stack software engineer with over 15 years of experience building scalable web applications, microservices architectures, and cloud-native solutions. Expert in JavaScript, TypeScript, Python, Java, and Go. Proven track record of leading engineering teams, architecting complex systems, and delivering high-impact products that serve millions of users. Passionate about clean code, test-driven development, and mentoring junior engineers.

## EXPERIENCE

### Principal Software Engineer | MegaTech Corporation | January 2018 - Present

Architected and led development of next-generation e-commerce platform serving 50M+ monthly active users

Designed microservices architecture using Kubernetes, Docker, and service mesh, reducing infrastructure costs by 35%

Built RESTful APIs and GraphQL endpoints handling 100M+ requests daily with sub-100ms latency

Implemented comprehensive CI/CD pipelines using Jenkins, GitHub Actions, and GitLab CI, reducing deployment time from 4 hours to 15 minutes

Led migration from monolithic architecture to microservices, improving system reliability from 99.5% to 99.95%

Mentored team of 12 engineers across 3 product teams, establishing best practices and code review standards

Introduced automated testing framework achieving 90% code coverage, reducing production bugs by 60%

Optimized database performance using PostgreSQL, Redis caching, and query optimization, improving response times by 50%

Implemented real-time analytics pipeline using Apache Kafka and Spark, processing 1TB of data daily

Collaborated with product managers and designers to define technical requirements and sprint planning

Conducted technical interviews and hiring decisions, growing engineering team from 5 to 25 engineers

Presented technical architecture decisions to C-level executives and stakeholders

Managed on-call rotation and incident response, reducing MTTR from 2 hours to 20 minutes

Implemented security best practices including OAuth 2.0, JWT tokens, and rate limiting

Optimized front-end performance using React, Next.js, and Webpack, improving Lighthouse scores from 60 to 95

### Senior Software Engineer | CloudScale Inc | March 2014 - December 2017

Developed cloud-native SaaS platform using AWS, Docker, and Kubernetes, serving 10M+ users

Built scalable backend services using Node.js, Python, and Go, handling 50M API requests daily

Designed and implemented data pipeline using Apache Airflow and Snowflake, processing 500GB daily

Created responsive web applications using React, TypeScript, and Tailwind CSS

Implemented authentication and authorization systems using OAuth 2.0 and RBAC

Optimized database queries and indexing strategies, reducing query time by 70%

Led migration from MongoDB to PostgreSQL, improving data consistency and query performance

Implemented comprehensive logging and monitoring using ELK stack and Datadog  
Built automated testing infrastructure using Jest, Cypress, and Selenium  
Collaborated with DevOps team to implement infrastructure as code using Terraform  
Mentored 5 junior engineers, conducting code reviews and pair programming sessions  
Participated in agile development processes including daily standups, sprint planning, and retrospectives  
Contributed to open-source projects and published technical blog posts

#### **Software Engineer | StartupHub | June 2011 - February 2014**

Developed full-stack web applications using Ruby on Rails, JavaScript, and PostgreSQL  
Built RESTful APIs and integrated third-party services including Stripe, SendGrid, and AWS S3  
Implemented real-time features using WebSockets and Redis pub/sub  
Created responsive front-end interfaces using jQuery, Bootstrap, and custom CSS  
Optimized application performance using caching strategies and database indexing  
Deployed applications to AWS EC2, RDS, and S3 using Capistrano and Ansible  
Implemented automated testing using RSpec, Cucumber, and FactoryBot  
Participated in code reviews and pair programming to maintain code quality  
Collaborated with designers to implement pixel-perfect UI/UX designs  
Managed production deployments and monitored application health  
Troubleshooted production issues and implemented bug fixes  
Documented technical specifications and API documentation

#### **Junior Software Engineer | WebDev Agency | August 2009 - May 2011**

Developed custom WordPress themes and plugins for client websites  
Built responsive websites using HTML, CSS, JavaScript, and PHP  
Integrated third-party APIs including Google Maps, Facebook, and Twitter  
Optimized website performance using caching plugins and CDN integration  
Implemented SEO best practices and Google Analytics tracking  
Collaborated with designers and project managers to deliver client projects  
Maintained and updated existing websites with new features and bug fixes  
Participated in client meetings to gather requirements and provide technical input

## **EDUCATION**

#### **Master of Science in Computer Science | Tech University | May 2009**

Thesis: "Distributed Systems Architecture for High-Availability Web Applications"

**GPA: 3.9/4.0**

Relevant Coursework: Algorithms, Data Structures, Database Systems, Computer Networks, Software Engineering, Distributed Systems, Machine Learning

#### **Bachelor of Science in Computer Science | State College | May 2007**

**GPA: 3.7/4.0**

Dean's List: Fall 2005, Spring 2006, Fall 2006, Spring 2007

## CERTIFICATIONS

AWS Certified Solutions Architect - Professional (2020)

**Kubernetes Certified Application Developer (2019)**

**Google Cloud Professional Cloud Architect (2018)**

**Certified Scrum Master (2017)**

## TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, Java, Go, Ruby, PHP, SQL, HTML, CSS

Front-End Frameworks: React, Next.js, Vue.js, Angular, jQuery, Bootstrap, Tailwind CSS

Back-End Frameworks: Node.js, Express, NestJS, Django, Flask, Spring Boot, Ruby on Rails

Databases: PostgreSQL, MySQL, MongoDB, Redis, DynamoDB, Snowflake, BigQuery

Cloud Platforms: AWS (EC2, S3, RDS, Lambda, ECS, EKS), Google Cloud Platform, Azure

DevOps Tools: Docker, Kubernetes, Jenkins, GitHub Actions, GitLab CI, Terraform, Ansible

### **Message Queues: Apache Kafka, RabbitMQ, AWS SQS**

Monitoring & Logging: Datadog, New Relic, ELK Stack, Prometheus, Grafana

Testing: Jest, Mocha, Cypress, Selenium, RSpec, JUnit, PyTest

### **Version Control: Git, GitHub, GitLab, Bitbucket**

Methodologies: Agile, Scrum, Kanban, Test-Driven Development, Continuous Integration, Continuous Deployment

## PROJECTS

### **Open Source Contributions**

Maintainer of popular npm package with 1M+ weekly downloads

Contributor to React, Next.js, and Kubernetes open-source projects

Published 20+ technical blog posts on Medium and Dev.to

### **Personal Projects**

Built real-time collaboration tool using WebSockets and React (5K+ users)

Developed machine learning model for stock prediction using Python and TensorFlow

Created developer productivity tool using Electron and React (10K+ downloads)

## PUBLICATIONS

"Scaling Microservices: Lessons Learned from Building at Scale" - Tech Conference 2020

"Kubernetes Best Practices for Production Workloads" - DevOps Summit 2019

"Building Resilient Systems with Circuit Breakers" - Engineering Blog 2018

## AWARDS & RECOGNITION

Engineering Excellence Award - MegaTech Corporation (2020, 2021, 2022)

**Top Performer - CloudScale Inc (2015, 2016, 2017)**

**Best Technical Blog Post - Dev Community (2019)**

## **LANGUAGES**

English (Native), Spanish (Conversational), French (Basic)