

# David Crystal

## Full-Stack Engineer

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### Summary

**Senior Full-Stack Engineer** with 8 years of experience in **TypeScript**, **React**, and **AWS**. Proven ability to **lead engineering teams** and **deliver scalable, high-performance websites** that support thousands of users. Known for a strong product mindset, clean architecture, and driving outcomes through collaboration, ownership, and continuous improvement.

### Work Experience

#### Senior Full-Stack Engineer

Chili Piper – Remote

Jan 2022 – Present

- **Led** development of core scheduling and routing features used by 1,000+ **B2B teams** worldwide.
- Built high-performance frontends with **Next.js**, **React**, and **TypeScript**, cutting page load times by 30% and improving UX across the board.
- Modernized legacy services into AWS-based microservices using **Lambda** and **Docker**, reducing deployment time by 40% and improving reliability.
- Set up CI/CD pipelines with **GitHub Actions** and **Jenkins**, enabling faster and safer releases with minimal manual overhead.
- Implemented observability tooling using **Datadog** and **Cloud Watch**, reducing incident response time by 35%.
- **Mentored** engineers across **multiple time zones**, led async design reviews, and helped shape engineering standards.

#### Full-Stack Engineer

Close – Remote

Feb 2020 – Dec 2021

- Led development of **high-impact** features on Close's CRM, directly improving workflows for global sales team in **100+** countries.
- Redesigned the lead import pipeline using **Node.js**, **PostgreSQL**, and **Redis**, doubling throughput and improving reliability.
- Rebuilt the analytics dashboard in **React**, speeding up load times by 40% and increasing usage by 22%.
- Implemented **OAuth**, **RBAC**, and encrypted **session storage** to harden platform security, resulting in clean internal and external audit **outcomes**.
- **Automated** test coverage and release workflows to reduce bugs and shorten **QA cycles**.

#### Full-Stack Web Developer

Automattic – remote,

Jun 2017– Jan 2020

- Built and maintained production features across **WordPress.com** and **WooCommerce**, improving UX for millions of users.
- Developed frontend components and backend logic using **JavaScript**, **PHP**, and **MySQL**, focusing on accessibility and performance.
- **Improved** checkout and billing flows, increasing conversion by 12% and lowering support volume.
- Completed Automattic's engineering onboarding program focused on async collaboration, remote tooling, and large-scale product development.

- Collaborated daily with global teams via Git, Slack, and internal P2s to ship fast and maintain high code quality.

## **Skills**

**Languages:** TypeScript, JavaScript (ES6+), SQL, PHP, HTML5, CSS3

**Frontend:** React, Next.js, Redux, Tailwind CSS, Webpack

**Backend:** Node.js, Express, REST, GraphQL, WebSockets, Microservices

**Databases:** PostgreSQL, MySQL, MongoDB, Redis

**DevOps & Cloud:** AWS (Lambda, EC2, S3, CloudWatch), Docker, CI/CD (GitHub Actions, Jenkins), NGINX

**Testing:** Jest, Mocha, Chai, Cypress, Postman

**Monitoring:** Datadog, CloudWatch, Sentry

**Tools & Workflow:** Git, GitHub, Jira, Slack, Agile/Scrum

## **Education**

### **Bachelor of Science in Computer Science**

*University of Northern Colorado – Greeley, CO*

*Graduation: May 10, 2017*

### **Relevant Coursework:**

- Web Development
- Data Structures and Algorithms
- Cloud Computing
- Database Management Systems