

# David R Prothero

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## OVERVIEW

I'm a **senior software architect** and **full-stack developer** who is passionate about technology. With over **25 years of experience** building solutions and leading technical teams, I've been repeatedly entrusted with building and maintaining high-traffic, public facing web sites and applications.

## EXPERTISE

- System Architecture
- Operating at Scale
- Cloud Architecture
- Software Development
- Content Management Systems
- Educating Developers

## EXPERIENCE

TWILIO, San Francisco, CA 2016 - Present

### Sr. Engineering Manager (2020 - Present)

- Lead the team of engineers responsible for the **twilio.com** Web site.
- Responsible for the mentoring and career growth of 7 full-time engineers.
- Also responsible for an elastic workforce of 8-10 temporary worker software engineers.
- Work with product and design to help chart the roadmap for the entire web team and ensure adequate resourcing for each program.

### Developer Educator (2016 - 2020)

- Lead **developer** and **architect** for the [twilio.com/docs](https://www.twilio.com/docs) platform, built with **Python**, **Django**, **PostgreSQL** and an open source content management system called **Wagtail**.
- **Inspire** and **equip** thousands of developers by authoring and curating technical documentation for Twilio's API's.
- Build and oversee development of a system that generates **thousands of code samples** for the Twilio API's in 7 different languages.
- Using **Vue.js**, help to build [TwilioQuest](#), an RPG-inspired, gamified training experience for developers to learn Twilio.
- Work closely with other **Twilio R&D teams** to ensure a magical developer experience for Twilio customers.

CALIFORNIA EARTHQUAKE AUTHORITY, Sacramento, CA 2014 - 2016

### Application Architect, Web & Cloud

- Lead **developer** and **architect** for [Earthquake Brace+Bolt](#), an ASP.NET MVC, Web API, **AngularJS**, and Bootstrap responsive web application with **RavenDB** backend and hosted in **Azure**.
- Leveraged the platform built for Earthquake Brace+Bolt to begin transitioning the [California Earthquake Authority](#) public website from SharePoint to an **Azure** based, responsive platform.
- Designed and built an earthquake insurance premium calculator app for mobile devices using AngularJS, Socket.io, **Node.js**, and WCF web services hosted via **Azure API Management**.
- Created an ASP.NET based documentation website like **Github Wikis** that utilizes TFS for the backend storage of **Markdown** documentation.
- Built full **automation** for Azure resource provisioning, **continuous integration**, and deployment.

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LOOSELYCOUPLEDLABS.COM, Stockton, CA

2014 - 2016

### Blogger

- Wrote a [technical blog](#) devoted to software system architecture.

THERAPEUTIC RESEARCH CENTER (TRC), Stockton, CA

2000 - 2014

### Director of Software Engineering and IT

- Built **ASP.NET, Android, and iOS** software solutions and platforms to host TRC's products which bring in over **\$20M** in revenue annually and see over **25,000 daily visitors**.
- **Directed** a staff of 3 managers who oversaw 6 developers, 3 QA engineers, and 3 dev-ops engineers.
- Made all **technology decisions** for TRC, managing a **\$2M** annual budget.
- Held role of **chief architect** for both **customer facing products** and **enterprise IT** systems, responsible for the availability, security, and safety of over **12TB** of valuable business data.
- Performed **technical diligence** for an **8-figure acquisition**, reviewing the target company's technology stack and making recommendations to the acquisition team for potential integration options.
- Led content integration project with **WebMD** to integrate over 1,000 natural medicines monographs into WebMD's web sites.

PROTHERO CONSULTING, Stockton, CA

1999 - 2000

### President and Lead Developer

- Provided **software development consulting** services to a variety of clients.
- **Managed** all aspects of the small business from accounting to seeking out new clients.
- Stabilized a Delphi application for the **California Department of Forestry** where the original programmer was no longer available.
- Designed and implemented an ASP-based query system for running reports from an **Oracle** database for a **NASA** project sub-contracted to **Battelle**.

ARGOS SOFTWARE, Fresno, CA

1997 - 2000

### Research and Development Manager

- **Designed architecture** for ABECAS Insight, a completely new, Windows-based, client/server ERP system built with Delphi and SQL Server.
- **Trained** over a dozen developers on developing within the new architecture.

CASCADE DATA SOLUTIONS, Albany, OR

1995 - 1997

### Programmer/Analyst

## EDUCATION

### Educational Coursework in Computer Science, 1994

Western Washington University, Bellingham, WA

### AA in Business Administration, 1993

Centralia Community College, Centralia, WA