

Stephen Crosby

Software Engineer

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Santa Barbara, CA

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Skills and Profile

Full stack software development engineer with more than ten years of experience in a wide range of tools and disciplines

- Language: Ruby, JavaScript, TypeScript, Go, Python, C++
 - Methodology: Object-oriented design (OOP), functional programming, Domain-driven design (DDD)
 - Database Systems / Data Stores: Relational (Postgres, MySQL, SQL), Other (MongoDB, Redis, NoSQL)
 - Architectures: Microservices, service oriented architecture (SOA), serverless, monoliths
 - API Design: REST, GraphQL
 - Other Technology: Containers, kubernetes, Continuous Integration (CI), git, DevOps, GitOps, Terraform
 - Engineering management
 - Strong troubleshooting, debugging and analytical skills
 - Committed to customer success
 - Bias for action
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MAR 2021 - TODAY

Mountain View, CA

Google > Search / Software Engineer

- Jumped into the middle of an unfinished project in an unfamiliar environment and carried it across the finish line
 - Conducted usability research for new product development
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OCT 2017 - MAR 2021

Goleta, CA

SecureDocs / Principal Software Engineer

- Produced and maintain our GraphQL API using Ruby/MongoDB (initial design, first commit, and ongoing maintenance)
- Built new file browser front end, the main component of SecureDocs, in JavaScript/React and mobx-state-tree enabling new document/folder operations and simplified UX
- Replaced our CI infrastructure and parallelized the build steps using Terraform, Docker, Drone.io and AWS autoscaling bringing average run times down from 90 to 15 minutes. This resulted in higher throughput from engineering and builds that cost about \$0.25 each
- Rebuilt electronic signature product to support arbitrarily complex workflows
- Created SAML endpoint service provider and onboarded hundreds of customers with SAML SSO
- Initiated the plan and developed the POC for migrating our core database from MongoDB to Postgres which will give us real

transactions and eliminate the class of issues we see stemming from the "dual write" problem

- Work directly with customers on escalations to identify issues
- Mentor junior engineers and interns

AUG 2010 - OCT 2017

Santa Barbara, CA

RightScale / Principal Software Engineer

- Technical lead creating Global Object and ACL services, global scale services for handling identity/authorization/authentication concerns built using a custom web framework in Ruby and Postgres
- Containerized legacy software systems, saving RightScale more than 30% on cloud infrastructure costs
- Led a team of 8-12 engineers on a multi-year refactoring effort rescuing an unmaintainable core software component so that it could be safely worked on
- Using the same team, created the "New Server Wizard" in Ruby on Rails which our customers used to launch millions of cloud instances
- Created the Network Manager, a cloud agnostic front-end application for managing network resources (eg networks, subnets, route tables, gateways, security groups, etc)
- Substantially contributed to unifying the interface to all cloud infrastructure providers enabling our customers to run their workloads on any cloud provider using a single API
- Created and implemented our i18n strategy, unlocking sales growth in Japan

May 2006 - AUG 2010

Fresno, CA

The Fresno Bee / Web Developer

- Built web software to support newsroom publishing activities, including election results, weather and air quality data, and GIS systems for crime information
- Built and maintained software in Perl, PHP, Python and Ruby
- Developed a robust high school sports statistics database in PHP/Zend Framework and MySQL

Education

AUG 2013 - MAY 2007

Fresno, CA

California State University Fresno / BS Computer Information Systems

Other

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- Proud father
 - Maintainer of Errbit (<https://github.com/errbit/errbit>)
 - Private pilot
 - Eagle scout
 - Lover of the wilderness