ADAM WILLIAMS

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Profile

Professional software engineer with 15+ years experience. Focused on Go, clean code, quality, simplicity, and mentoring. Experience leading project development and working collaboratively as part of a distributed team.

Technical

Go (golang), Rust, Ruby, Javascript	Kubernetes, Docker, Helm	Puppet, Ansible, AWS, Linux
Swift, Python, PHP, Java	Git, SVN	Prometheus, Grafana

Experience

Fastly
Senior Software Engineer

April 2021 — Present
Fastly, Inc.

- Contribute features to core Compute system using Rust.

- Create backend using Go which handles API requests for Secret Store product. Deploy within Kubernetes environment.

- Develop configuration delivery system spanning thousands of nodes using Go. Improve performance by adding observability and monitoring.

- Improve, fix, and maintain large Go application for on-the-fly video packaging.

Comcast
Engineer Level 4

February 2015 — April 2021
Comcast Cable

- Implement and design MPEG-TS parsing library in **Go** to build application to monitor hundreds of video streams in order to provide metrics using **Go, Prometheus, Docker, and Kubernetes**. Create automated testing framework leading to improved accuracy and development speed.

- Design and build native Go client for Apache Pulsar, collaborating with core project developers. Project was released as open-source by Comcast (github.com/Comcast/pulsar-client-go). Build distributed system for object replication.

- Develop projects as a **tech lead**. Mentored fellow engineers. Participant in **Open Source Fellowship Program** and receiver of award for top contributor.

- Build core components used for **TCP & UDP custom protocol communications using Go**. Follow specification documents to implement protocols.

- Use **Kubernetes and Helm** for national deployment across multiple data centers. Develop custom **CNI plugin**.

- Create custom network monitoring application. Uncover, debug, and resolve obscure longstanding DNS issue causing problems in production environments.

Cabify
Senior Developer

October 2013 — February 2015
cabify.com

- Implemented new features and modify existing functionality using RoR, Node.js, Go. Introduced Go to the company, which led to replacement of most Node.js services and improved reliability.

- Provisioned and maintained servers using Ansible, Bash scripts, and Go binaries deployed on Linode and AWS in multiple regions for service provided in 4 countries. Monitored systems with InfluxDB and managed CouchDB replication/backups. Built internal development tools.

- **Technologies used**: Ruby on Rails (4.x) with Ruby 2.x, CouchDB, Elasticsearch, Redis, ZeroMQ, Go, Node.js, Ansible, Linode, Android.

Incuentra Technologies
Lead Developer

July 2010 — October 2013
www.incuentra.es

- Led project creation from idea to production stage. Design site architecture; programmed front and backends. Leverage Amazon's EC2, S3, RDS, and IAM services. Maintain servers using Chef and Unix tools. Continuous deployment with Capistrano. Write unit and integration tests. Localized version for Mexico.

- **Technologies used**: Ruby on Rails (2.x and 4.x) with Ruby 1.8.7 and 2.0.0, MySQL, Solr, AWS.

DixiMedia
Developer

December 2008 — July 2010
www.lainformacion.com

- Developed the online newspaper frontend using PHP and the Zend framework. Developed the CMS used by journalists with PHP and Ext JS.

Interests	Presenter at various Go and Ruby user groups	Co-organizer of Madrid Go meetup. Home automation Founder of internal Comcast Go club
Languages	English (native)	Spanish (fluent)

Education

University of Minnesota
Dual Major, B.S. Mathematics and B.A Spanish Studies