Jamie Syme

Software Developer

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EXPERIENCE

Group Photo Inc — *Backend Developer*

April 2015 - November 2016

Group Photo is a startup company building a media sharing platform to provide organization, privacy, and backup of photos and videos. I:

- prototyped the backend and REST API in Meteor. This allowed us to nail down the core experience, iterate on design, and unblock the front-end developers;
- achieved over 5x performance improvement between the time media was uploaded and when it was delivered to the client by transitioning from Meteor to a custom C++ backend;
- and managed most other backend responsibilities, including unit tests, deployments with Ansible, Elasticsearch schemas, and providing documentation on Apiary.

PROJECTS

Videoso.ca — *Early Stage Video Sharing Platform*

Videoso was created to learn Go, as well as to learn more about video processing and video streaming.

- Uses MPEG-DASH to support adaptive bitrate streaming
- Web client uses Bootstrap to enable a responsive design

Lattice — *Lightweight Status Hub for Linux*

Lattice was created as a replacement for i3bar, displaying time, date, etc.

- Clean C code with 0% CPU overhead during 99% of runtime
- Uses client/server architecture with TCP sockets

EDUCATION

University of the Fraser Valley, Abbotsford — Bachelor of Science in Computer Information Systems

September 2013 - Present

Current GPA: 3.95

SKILLS

Languages: C++, C, JavaScript, Python (novice), Go (novice)

Tools: Git, Emacs with evil-mode, Ansible, Apiary, DigitalOcean, Amazon S3

Libraries: Poco, ImageMagick, ZeroMQ, Jasmine

Applications: Elasticsearch, Meteor, MongoDB, Node.js, Nginx, Postgres

INTERESTS

Code Design: Countless hours spent studying OOP, Composition, Entity Component Systems, and recently, Atomic Design.

Graphics Technologies: Researched and implemented rasterizers, ray tracers, and ray casting engines as hobby projects.

Parsers: Designed and implemented parsers for various context-free grammars, including JSON, XML, and SQL.