Grant Mercer

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Links   [Personal Site](#), [Stackoverflow](#), [Github](#)

01 EMPLOYMENT HISTORY

04/2018 — Present   ### Full Stack Developer at Slickdeals   *Las Vegas*

- Led architectural planning and development of a new internal content promotion system, supporting a 25% YoY growth in the sector. Used modern design paradigms with PHP 7.3 and Symfony to engineer a system capable of supporting an evolving business model.
- Created a lift of 14% in homepage revenue through researching and developing the companies first machine-learning based personalization along with one other colleague. Continue to improve and create new mediums of delivery for personalized content.
- Work with team to develop and maintain site-search microservice using Docker, PHP 7.4, Symfony, and ElasticSearch.

06/2017 — 04/2018   ### Full Stack Developer Internship at Slickdeals   *Las Vegas*

- Developed various frontend site features using RequireJS/PHP 7.3/MySql such as article email notifications and injected featured content on the Slickdeals search page.
- Converted frontend designs into HTML/CSS/JS templates and integrated A/B tests using in-house test system.
- Maintained and modernized legacy systems such as our internal content promotion system, which attributes to hundreds of thousands of dollars in revenue per year.

12/2015 — 01/2018   ### Software Consultant at Brainlike Inc.   *Las Vegas*

- Wrote custom C++ software solutions for detecting wildlife in large quantities of imagery, often times with a detection rate of 80+ percent across hundreds of thousands of images.
- Worked heavily with image and statistical analysis techniques to develop C++ detection algorithms for customers.
- Maintained relations with customers to ensure product delivery met expectations on detection rate.

06/2015 — 08/2015   ### Application Developer Internship at NASA DEVELOP   *Hampton*

- Developed a python application for visualizing atmospheric aerosol data (i.e. particles from volcano eruptions, fires, etc) collected via the CALIPSO satellite.
- Utilized Matplotlib for data visualization and TkInter to provide a graphical user interface for interacting with visualizations.
- Managed relations, project goals, and application delivery with CALIPSO scientists

02 PROJECTS

Feb 2019 — Present   ### Red Rock Climbing Conservation

Developer and maintainer of [wetrockpolice.com](#), a Rails 6 + PostgreSQL website utilized by the Las Vegas climbing community and it's tourists for determining when rock climbing is safe. Since

it's inception in 2019 the site has attracted over 12,000 unique visitors looking to rock climb in the Las Vegas area.

Additionally, the site handles coalition member signups during events through wetrockpolice.com/redrock/sncc

Jan 2017 — Present

Slackline Community Maps

Developer and maintainer of slacklinegroups.com, a site for visualizaing the locations of slackline groups across the world. Written using Ruby on Rails 5 and Mapbox for visualization of groups.

Jan 2017 — May 2017

Convention Logistics Tracker

Senior Design team awarded 1st place in the computer science category. Developed a software suite for aiding in convention logistics which included an administrative web portal and mobile app. Developed using Angular4, Python (Flask) & mySQL.

03 COMMUNITY INVOLVEMENT

Jun 2014 — Dec 2017

CppCon & C++Now Program Committee Member   *Remote*

Served on the program committee board for both C++Now and CppCon. Reviewed submitted talks and provided feedback for staff in charge of acceptance/rejecting talks.

Jan 2020 — Present

Southern Nevada Climbers Coalition   *Las Vegas*

Serve on the board of SNCC as the head of technology. Assist in payment processing, site maintenance / SEO, and developing new tooling for assisting the coalition in managing Las Vegas's climbing areas.

Oct 2014 — Oct 2014

C++ Extensions for Parallelism

Wrote and proposed a modification to the C++ Standard Template Library where a new method, transform-reduce, would be implemented to solve a specific use case. http://www.open-std.org/jtc1/sc22/wg21/docs/papers/2014/n4167.pdf

The proposal was accepted shortly after and implemented by compiler vendors (-https://en.cppreference.com/w/cpp/experimental/transform_reduce)

04 EDUCATION

Aug 2013 — Dec 2017

UNLV   *Las Vegas*

Bachelor of Science in Computer Science