

## Andrew L. Ayers – Full-Stack Software Engineer

[phoenixgarage.org](http://phoenixgarage.org) – [github.com/andrew-ayers](https://github.com/andrew-ayers) – [github.com/junkbotix](https://github.com/junkbotix) – [linkedin.com/in/cr0sh](https://www.linkedin.com/in/cr0sh)

### Skills:

As a professional full-stack software engineer, I pride myself on being able to provide my employer solutions for their business problems and needs, utilizing the best of my experience and knowledge. My skills include all aspects of design, development and maintenance for desktop, server, and mobile-based applications. I have experience in a multitude of platforms and technologies, front-end to back-end, which include:

Javascript	NodeJS	ReactJS	GatsbyJS
RequireJS	Bulma	Couch/Pouch	SendGrid
Stripe API	Google Maps API	SASS	Gulp
qUnit	Jenkins	OpenStack	PHP OpenCloud
Codeigniter	PHP	Python	MySQL
LAMP Stack	Golang	Linux / Unix	Docker
Phonegap	Corona Labs SDK	Lua	...and many others

My skills and experience are not limited to only these technologies and platforms; rather they serve as a sample of what I can bring to the table in order to provide solutions to meet the needs of my employer and their business. References are available on request.

### Applications:

My skills, experience and knowledge have been instrumental in the development and implementation of a variety of software applications and solutions, including:

Responsive mobile applications	Online educational platforms
Cloud server deployment automation	Geo-location (Mapping and Search)
Reporting (Audit, Logging, and Tracking)	Multi-level/Domain/ACL Security
Storefront and Managed-content (CMS)	Payment Gateway Authorization

### Experience:

#### Teaching, Volunteer Work, and Self-learning

February 2020 – Present

I am currently involved in the development of various personal robotics and machine-learning related projects, which have included:

- Junkbotix, a YouTube channel dedicated to teaching robotics and mechatronics by example
- Robotics projects using the Arduino development platform
- Custom development of C/C++ supporting libraries and software
- A long-term Unmanned Ground Vehicle (UGV) project
- Online education for Machine Learning, GANs, and the AWS ML platform

I have also spent time assisting with various tasks for Wheelchair Labs ([wheelchairlabs.org](http://wheelchairlabs.org)), a non-profit dedicated to helping out those in need of mobility devices and assistance.

#### ECREATIONS ([ecreations.net](http://ecreations.net))

October 2019 – February 2020

##### Senior Software Engineer

Responsible for the in-house design, development and maintenance of a subscription-based and mobile-first progressive web application (PWA), catering to the needs of organizations to connect with interested parties and venues to develop shared online promotional and marketing activities for the general public. I was involved in all aspects of the development, with a primary focus on the implementation of an ACL security API and integration with Google's Map API for mapping, routing, and geo-location based tracking/fencing.

#### ECREATIONS ([ecreations.net](http://ecreations.net))

May 2016 – September 2019

##### Senior Software Engineer

Responsible for the development and maintenance of an online education, training and test simulation system for a globally recognized educational and publishing company. The system was implemented as a single-page application (SPA), and was designed to be accessible across all major browsers, operating systems, and mobile platforms by using responsive design principles.

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**Experience:** **NOBIS TECHNOLOGY GROUP, LLC** April 2014 – April 2016  
**Software Systems Engineer**

Integral for the engineering, development and maintenance of a proprietary software system for the management and deployment of cloud hosting services, for internal and customer-facing usage, including:

- Cloud server deployment automation (new features and on-going maintenance)
- Integration and maintenance with a Java-based RESTful API
- Research and expansion of the PHP OpenCloud API
- Implementation of an API interface in Golang for Rancher container deployment using Docker

**FENDER MUSICAL INSTRUMENTS CORPORATION (FMIC)** July 2012 – January 2014  
**Web and Application Developer/Analyst**

Developed and maintained a variety of brand-specific sites, including the flagship Fender brand, for marketing and communication outreach purposes, using a LAMP stack and the Codeigniter framework. I was instrumental in the development of an artist content management system, a moderated “product ratings and review” system, and a custom SOAP payment gateway library.

**ZENUITY, INC** November 2011 – May 2012  
**Web and Mobile Application Developer/Analyst**

Performed development and maintenance for various branded client web and mobile application needs. These included a cross-browser, desktop and mobile graphics manipulation system, a diet plan tracking system, an entertainment venue check-in service mobile-app utilizing geo-location, and research/development for mobile-app multimedia services and gaming.

**INEXO, INC** January 2007 – October 2011  
**Web Application Developer/Analyst**

Performed development, implementation, and maintenance for various branded client web application needs. These included a cross-browser, desktop and mobile patient-centric medical records application, a geo-location based search and mapping system, maintenance of an Iridium satellite-based asset tracking and pay-phone system, and a payment gateway interface for use with authorize.net and TrustCommerce.

**INTERNATIONAL SOCIETY OF SIX SIGMA PROFESSIONALS** October 2004 – December 2006  
**Web Application Developer/Analyst**

Design, development, and maintenance for an interactive cross-browser membership-based and public-facing managed website, which included a semantically query-able DB structure, CMS capabilities, a custom report development and deployment system, and a browser-based versioning code editor for off-site maintenance purposes.

**ELDORADO COMPUTING INC (Windows GUI R&D Developer/Analyst)** May 1998 – October 2004  
**ADVANCED FOODSYSTEMS INC (PICK and R&D Programmer/Analyst)** October 1994 – May 1998  
**ISOTECH MARKETING & REDPATH COMPUTER SERVICES INC (PICK)** February 1992 – August 1994

**Education:** **ONLINE CONTINUING EDUCATION**

Udacity – AWS Machine Learning Foundations May – August 2020  
Udacity – Self-Driving Car Engineer Nanodegree December 2016 – October 2017  
Udacity – CS373: Programming A Robotic Car Spring 2012  
Stanford University – Machine Learning Course Fall 2011

**SCOTTSDALE COMMUNITY COLLEGE** Classes for C/C++ training and software development

**HIGH-TECH INSTITUTE** June 1991 – June 1992  
Phoenix, Arizona Graduated with a Technical Associates Degree in computer electronics