

Qualifications

BS - Computer Science 2013

Akron, Ohio - The University of Akron

Environments GNU/Linux, BSD/macOS, AWS

Languages Golang, Python, ES7 (react, redux, node), HTML5, CSS3, SASS, SQL, Ruby, PHP, C++, Shell

Software Bash, Git, SVN, Mercurial, VIM, GNU Coreutils, Vagrant, Berkshelf, Chef-Solo, Ansible, Salt, Apache, nginx, MySQL, Redis, Bower, Browserify, Webpack, npm, PHP Composer, go, glide, jq

Experience

Crunchyroll / VRV

Senior Software Engineer — *August 2014 - Present*

- Designed and developed high performance APIs using go to serve video content metadata. Applied the HATEOAS constraint of REST to provide flexibility during rapid API design changes.
- Full stack implementation of a ‘content partner’ portal for content management. Developed using React-Redux alongside modern web technologies, with special attention given to the ‘look and feel’ of the application.
- Maintained production micro-services deployed in AWS. Used tooling such as NewRelic to investigate and quickly determine resolutions for live issues. This included an internal video ingestion system of which a deep understanding of many moving parts (encoding, metadata parsing, image conversion) was critical in resolving issues.
- Promoted quality coding standards, git best practices, review best practices, automated style lint tooling, and improved developer environment tooling throughout the organization for a high quality developer experience.
- Improved developer experience by reworking an internal developer VM to be powered by Vagrant, including configuration management using salt.
- Architected and developed secure authentication mechanisms for a novel dual subscription linking system using the OAuth 1.0 protocol for the accounts API driving the VRV product.
- Spearheaded the divorce of a deeply integrated client frontend and monolith backend into a cleanly separated API consuming client using a modern PHP Symfony stack for the KDrama product.
- Took initiative to update and own project library dependency versions. Various projects were updated to the newest Symfony2 framework along with other libraries, providing for an improved developer experience.

Acadaware

Lead Web Applications Developer — *March 2011 - July 2014*

- Developed a web application for managing Experiential Education programs.
- Worked as the sole Full-Stack developer to build and deploy both the front and back ends of the application.
- Responsibilities included all stages of development, from initial requirement gathering to deployment and configuration of a production server environment.
- Used the MVC delivery mechanism to structure the web application.
- Architected business logic using advanced object oriented concepts.
- Designed and implemented a relational database structure suited to the application.
- Designed the frontend of the application using modern web technologies such as HTML5 and CSS3 while also taking user experience best practices into consideration to bring a beautiful and intuitive experience to the user.

Side Projects

- github.com/evanpurkhiser/prolink-go, github.com/evanpurkhiser/prolink-overlay
Proprietary UDP/TCP protocol reversal & implementation. Websocket publishing to React based video stream overlay.
- github.com/evanpurkhiser/dots
Novel ‘cascading’ dot file management solution for sharing personal configuration files across systems and platforms.