

Gabe Schwarzer — Senior Web Engineer

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Detail-oriented Web Engineer with 12 years' experience in full stack web application development. Proven track record of substantially increasing business efficiency and user satisfaction by building innovative software solutions with intuitive user interfaces. Regarded by colleagues and supervisors as creative problem solver and talented project lead with easy-going personality and strong focus on simplicity. Self-motivated and resourceful team player who thrives in fast-paced environments and embraces lifelong learning.

Experience

Menlo School – Atherton, CA

<i>Principal Software Engineer</i>	2017 – present
<i>Web Systems & Technical Projects Manager</i>	2015 – 2017
<i>Web Systems Manager</i>	2013 – 2015
<i>Web Systems Analyst</i>	2011 – 2013

Identify procedural, technical, and financial inefficiencies in day-to-day operations of this top 30 independent secondary school in the country; correct them by developing easy-to-use and mission-critical web-based software solutions used by 5,000+ members of the community. Actively participate in weekly cybersecurity and public communications meetings, as well as oversee department during director's absence.

Key Projects:

Knightbook: school's online student photo directory with intuitive search, filtering, and export capabilities used by 2,500+ parents, students, and employees. Originally written in **JavaScript** and **PHP**, currently refactoring as **ES6 React** app with **object-oriented PHP** backend for **JSON REST API**. Has provided yearly savings of \$13K to organization since print version has been discontinued due to Knightbook's overwhelming popularity.

Fortress: internal information system used by 500+ students and faculty to replace aging and highly disliked Drupal installation. Custom built with underlying modular design and using **object-oriented PHP**, **Twig** templating, **Bootstrap** and **JavaScript**. New module creation is 50-70% faster compared to building standalone web app due to simple architecture and common functions being readily available through inheritance.

Go Menlo: Fortress module that allows 100+ faculty and staff members to quickly and easily log their daily alternative transportation usage and calculates their end-of-year bonus based on data submitted. Written in **JavaScript** and **object-oriented PHP**, it fully replaces third party product for which organization paid \$20K per year.

Single Sign-On: unified login to school's web applications based on CAS (open source SSO system) with Active Directory backend. Developed intuitive help wizard in **AngularJS** and **object-oriented PHP** for self-service password resets and login troubleshooting, resulting in reduction of support requests by 70%.

Online Giving: easy-to-use and PCI compliant payment form to allow the community to make donations to organization with credit cards online. Built using **JavaScript** and **PHP**, application communicates securely with payment processor's API over cURL. Successfully processed donations totaling \$2.5M+ over its 3 year lifespan.

Centennial Celebration: highly interactive photo album with commenting feature to celebrate school's centennial year; includes content management backend for comment approval and custom image cropping. Written in **JavaScript**, **PHP**, and using **Bootstrap** for the backend. Frontend source and link to live site is available at github.com/gschwarzer/MenloCentennial.

CSU Northridge, College of Extended Learning – Northridge, CA

Technical Analyst 2010 – 2011

Managed all aspects of web development and maintenance, including planning and execution, for extended learning college at one of the largest universities in Los Angeles metro area. Served as supervisor and collaborated on web projects with 4 part-time student assistants.

Key Projects:

EasyApp: multi step online application process to college, inherited from predecessor as buggy and difficult to maintain stack of spaghetti code. Fixed all bugs, rewrote large parts of **PHP** codebase to improve long term maintainability, and added new convenience features for applicants resulting in 12% increase in completed applications that year.

ExL Portal: internal information system to house newly developed web applications for college. Wrote foundation with ACL-like permissions management in **PHP** and afterwards supervised student assistants who were tasked with building individual modules.

CSU Northridge, Student Housing and Conference Services – Northridge, CA

Information Technology Consultant 2008 – 2010

Equipment Systems Analyst 2006 – 2008

Turned paper-based business processes into more efficient web applications in consultation with management. Evaluated new technologies and their potential applications to save organization time and resources. Provided Mac and PC technical support to all 2,200+ Student Housing residents and 70+ staff members.

Key Projects:

Reconciliation Log: web application to track purchase reconciliation records and help manage organization's \$19M budget. Written in **JavaScript** and **PHP**, app resulted in reduction of budget inaccuracies and reconciliation errors from 30+ to less than 3 per year.

Inventory System: easy-to-use web application to keep record on technology inventory location and track lending to employees. Built in **PHP**, system eliminated common annual loss of thousands of dollars in electronic equipment.

Resident Advisor Portal: system to track work provided by Resident Advisors and allow them to easily trade night and weekend duty shifts with each other online at any time. Developed in **PHP**, RA Portal significantly increased productivity and eliminated need for paper forms previously relied on.

Education

- **Master of Science** in Information Systems – Santa Clara University (2013)
- **Certificate** in Project Management – University of California, Los Angeles (2009)
- **Bachelor of Arts** in Cinema & Television Arts – California State University, Northridge (2007)

Side Projects

Workout Rest Timer (2018)

Simple countdown timer to achieve consistent 60 or 90 second rest periods in-between weight lifting sets. Includes tracker of sets completed and plays different tones at 7 and 0 seconds remaining to alert user of rest period end. First written in **vanilla JavaScript**, later converted to **ES6 React** app. Runs in any mobile device browser, but works best using iOS wrapper app written in **Swift** to allow for sounds playing in background and concurrently with music. Source available at github.com/gschwarzer/workout-rest-timer.

The Nasstarian - Ghost Blog Theme (2016)

Freelance work to develop custom designed blog theme for Nasstar PLC (large UK cloud provider). Converted Photoshop and Illustrator files created by designer to clean and responsive **HTML**, **CSS**, and **JavaScript**. Afterwards, built out theme pages and reusable partials using Ghost's **Handlebars** templating language. End product available at blog.nasstar.com.

Clean & Simple Shopping List (2014)

Lack of simple shopping list app with clean design provided opportunity to put newly acquired iOS development skills to good use. Native app allows list items to be assigned to stores and saved for easy repurchasing later. Icons designed in **Photoshop** and open source app developed in **Objective C** available at github.com/gschwarzer/Shopping-List.