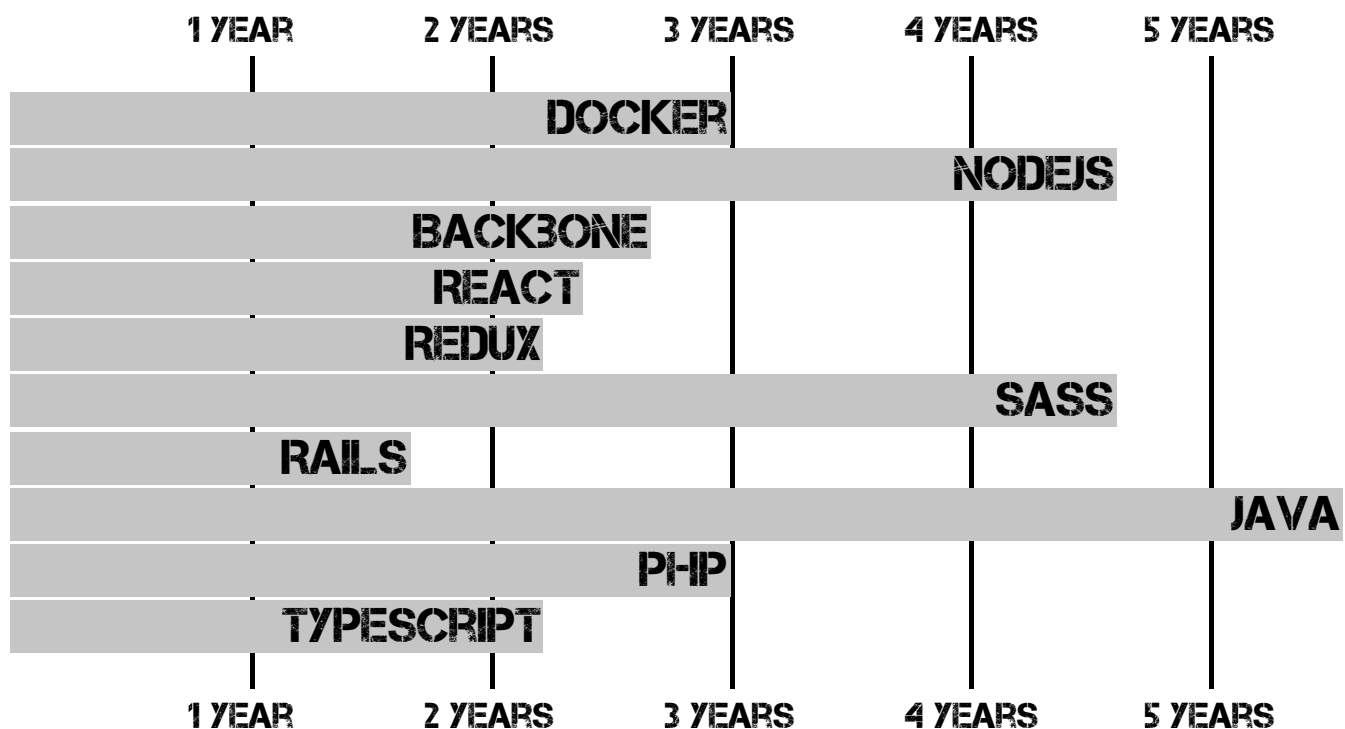# MICHAEL NIGH

contact@mnigh.com

SUMMARY

Strong **front** and **backend** web developer seeking to join a solid team.

Interested in tools that **get the job done** while boosting **productivity**.

Believe good code is **easy to maintain, well tested,** and **easily extended**.

Big on OSS – I like knowing how the tools I use work.

SKILLS

	1 YEAR	2 YEARS	3 YEARS	4 YEARS	5 YEARS
DOCKER					
NODEJS					
BACKBONE					
REACT					
REDUX					
SASS					
RAILS					
JAVA					
PHP					
TYPESCRIPT					

EXPERIENCE

SENIOR WEB DEVELOPER - NPS CED3 - GDIT 　　　2015-02 to present

Senior Web Developer 2016-02 to Present

Web Developer 2015-02 to 2016-01

Build and maintain CED3 web applications to enhance course development and delivery at the Naval Postgraduate School in Monterey.

Responsibilities include managing programming team, recruiting and training new hires, managing project timelines and scope, choosing tech stacks and architecture, setting long term plans and goals, and supporting and extending services.

Backends in NodeJs Express with Docker deployments using the twelve-factor app model.

Frontends with React/Redux and Webpack for bundling.

Legacy systems in PHP, Java Wicket, and Backbone.

PROJECTS

POST & ASSESS

Tool for students to publish posts, be assessed by peers, and graded by an instructor.

Hides posts until each period is over, preventing students from being influenced by early posts.

MONTEREY PHOENIX

Code editor for the Monterey Phoenix language with graph visualizations and automated layouts. Used to examine process flow in a variety of disciplines to clarify and find problems in the execution of asynchronous events.

HURRICANE DECISION SIMULATOR

Simulation of decisions that occur as a result of a hurricane heading towards a major city and how to handle its evacuation.

FREELANCE WEB DEVELOPER   2010-09 to 2014-10

Building highly customized personal and small businesses websites.

See projects for details.

PROJECTS

NOAHSARKRETREAT.COM 🔗 🚢 Ⓦ   2013-06 to 2013-07

Recovered website from WayBackMachine and ported to Wordpress theme.
Extended original site and added features such as responsive image
galleries. Updated content and added new pages. During development
used Rails with LiveReload to generate Coffeescript and SASS of
WordPress theme.

DRBACAL.COM 🔗 🚢 Ⓦ   2013-02 to 2013-04

Constructed WordPress backed website using custom deployment tools I
built earlier with Sprinkle (similar to Chef). Worked with client and
SEO specialist for design and content. Used Rails with LiveReload to
generate SASS and Coffeescript of WordPress theme.

TERESAJANELA.COM 🔗 🚢 Ⓦ   2012-05 to 2012-06

Created simple Rails website, later porting to WordPress as a CMS.
Evaluated numerous deployment options, including Heroku, DotCloud,
and AWS — eventually deployed to AWS using EC2, S3, and CloudFront.

JAMESDEWULF.COM 🔗 🟢JS   2011-12 to 2012-01

Rebuilt site as an SPA to be much faster and added new features. Features
include jqZoom for product photos, fancybox display of press magazine
articles, and videos of products. Built with web app generator I began a
few months prior.

JENLEEARTS.COM 🔗 ☕   2011-07 to 2011-08

Extended parveztaj.com GWT template to another site. Setup domain,
hosting, and CDN.

DIGITALCANDYPR.COM 🔗 ☕   2011-01 to 2011-02

Expanded on GWT experience to design small business site with a very
simple clean look. Features include Twitter integration and AWS
hosting.

PARVEZTAJ.COM 🔗 ☕   2010-09 to 2011-01

Constructed art gallery website using a variety of tools, including GWT,
JQuery, and Typeface. Emphasis on design, compatibility, and
performance. Expanded GWT to allow exact positioning, shadows, custom
fonts, and history support. Worked directly with the client to achieve
the exact look and feel they needed.

Maintained and added new content coinciding with launch events for a
few years; This included adding new collections, sending out
newsletters, and posting to various social media. Assisted in migration
to ecommerce by importing existing products into new Shopify site in
2014.

TECHNICAL LEAD - SUTISOFT 🦇   2012-04 to 2012-08

Began development on internal company project by creating a prototype.
Project required WYSIWYG functionality using recent HTML5 and CSS3
techniques. The prototype was green lighted – and the skeleton of the
project was built in Rails. Researched and implemented the skeleton,
choosing between various open source libraries.

MOBILE GAME DEV - XTRACOOL 🍎   2011-12 to 2012-03

Architected cross platform game engine for use with iOS and Android.
Built on the Moai SDK with game and game engine written in Moonscript and
Lua. Built against actively evolving SDKs. Chipmunk used for physics and
collision detection.

DUOVU.COM - DUOVU INC ☕ JS php 🐬   2005-01 to 2007-01

Built a Real Estate PHP/MYSQL website in a small team. Created a blueprint
drawing tool using an applet combined with a DOJO front end. Utilized
XML via JSON to communicate between server and client applications. Also
responsible for building and maintaining LAMP servers and virtual
machines used by developers.

HOBBIES

Interesting projects outside of work.

PROJECTS

RESUME.MNIGH.COM   2016-02 to 2016-04

Published resume as open source project.

Fork of previous boilerplate project, streamlined and improved from
past iterations. Replaced graphs with simple React components, vastly
improved skill calculations, and reogranized structure to better
represent project associations.

BOILERPLATE ISOMORPHIC TYPESCRIPT   2016-01 to 2016-02

Boilerplate isomorphic React Typescript project.

Experimented with various build systems such as JSPM, Webpack, and
Gulp, then combined the best of each into one project. Sucessfully forked
for a wide variety of projects, thanks to a type enhanced configuration
file and related Gulp tasks.

YET ANOTHER ISOMORPHIC BLOG   2015-10 to 2015-11

Created an isomorphic React blog.

Bootstrapped from past boilerplate project, creates a static isomorphic
website which can be hosted on github pages at no cost.

BOILERPLATE GULP GENERIC   2015-10 to 2015-10

Boilerplate ES6 project using Gulp tasks and Babel.

RESUME.MNIGH.COM   2015-07 to 2015-08

Updated, upgraded, and easier to maintain after working on various
Docker and Gulp projects over the last year.

ANDROID APP   2015-04 to 2015-05

Built networked application in a small team for a class. The application
needed to synchronize data between clients. Credentials were validated
via Google oAuth tokens and data was synced via an API server built in
NodeJS express and socket.io .

NODEJS MIGRATION   2014-09 to 2014-11

Shifted from Rails to Nodejs to unify stack and take advantage of better build tools. Created Gulp tasks for rapid generation of SPAs and websites. Modularized tasks using NPM so that new projects can be bootstraped based on application type. Features include ES6 transpiling, integration testing, Livereload, preprocesser support (SASS, Coffeescript, Jade), and optimized assets based on environment.

MNIGH.COM   2014-11 to 2014-11

Created blog to increase my online presence and demonstrate technical knowledge in an informal way. Built with NodeJs stack using custom Gulp tasks.

RESUME.MNIGH.COM   2014-12 to 2014-11

Rebuilt resume with NodeJs stack from custom Gulp tasks. Snapshots of previous projects ported into Docker containers and run on a single VPS behind an Nginx proxy.

DOCKER MIGRATION   2014-07 to 2014-08

Applied Docker to new and current web projects. Moved away from shell and ruby scripts to Dockerfiles with simple build scripts. Over time learned and applied best practices - based on docker usage in small and big companies.

BACKBONE FINANCIAL APP   2014-01 to 2014-02

Development spike to experiment with Backbone after a few books and backbonerails.com screencast. Built in NodeJs with seperate Grunt tasks for retrieving data, serving a REST API, and rendering. Did not pursue due to high licensing cost of financial data.

LXC DEPLOYMENT   2013-04 to 2013-09

Created LXC wrapper to handle project deployment. Vagrant like commands added to shell by custom ZSH plugin. Utilized btrfs for caching to minimize redeployment time. Supported Wordpress deployment and theme generation.

RESUME.MNIGH.COM   2012-08 to 2012-09

Created web resume using Rails. Featured custom fonts, mediaquery breakpoints, and a searchable PDF when printed from chrome.

Created Coffeescript based single page app generator. Solved SEO by rendering first page from server and remaining pages from application. Utilized TDD and BDD to ensure SPA worked well in all browsers.

Interesting features include an AATree (heavily stress and performance tested), priority based image download queue, and a package system similar to AMD for modular code and easy mocking.

EDUCATION

SAN JOSE STATE UNIVERSITY   2004-08 to 2009-12
Bachelor of Science – Computer Science