# KNOWLEDGE

## Programming Languages

* *(Experienced)* ECMAScript (JavaScript), Node.js, HTML/XML/CSS
* *(Familiar)* Rust, WebAssembly (from Rust), Kotlin, Clojure, ClojureScript, Elm, ML (Reason, OCaml, F#), Python

I believe understanding mathematics is essential for one to excel at writing sustainable software and mathematics is made manifest in functional programming concepts.

## JavaScript Tools, Libraries, and Frameworks

* Backbone.js, Cesium.js, MarionetteJS, React.js, jQuery, RequireJS (*AMD* )
* Polymer (Web Components), Lodash.js, Redux.js, RxJS
* code quality (ESLint, flow, etc…)
* unit/integration/fuzz/acceptance testing (jest, AVA, mocha, jasmine, etc…)

I build web apps, desktop apps, servers, APIs, libraries, and CLI tools (see my [GitHub account](https://github.com/jhwohlgemuth) for examples)

## Database Technologies and DevOps

* *(Database Technologies)* MongoDB, redis, CouchDB, MySQL
* *(Continuous Integration)* Jenkins, TeamCity, Travis, Codeship
* *(Development and Deployment)* Git, nvm, npm, Grunt, Gulp, Browserify, Babel, Webpack

I follow track of current trends and developments…it is one of my hobbies :)

## Software

* Docker, Vagrant, Packer, VMWare, VirtualBox, Linux, RHEL
* Almost any front-end IDE/editor (current favorite is VS Code)
* Atlassian JIRA, Stash (Bitbucket Server), Confluence
* Adobe Fireworks, Adobe Illustrator, Adobe Flash

## Web Application security

* MITRE CVE and CWE
* So Now You Know (snyk)
* OpenSCAP

**ex**: I made an [ESLint config mapped to MITRE CWEs](https://github.com/omahajs/eslint-config-omaha-prime-grade/blob/master/RULES_FOR_SECURITY.md)

# SKILLS

## Application Design and Development

* Designed and delivered presentation on automating front-end development using modern front-end tools such as node.js, Grunt, and Karma. A functional project template that facilitates the immediate implementation of the ideas presented is available online on [GitHub](https://github.com/jhwohlgemuth/generator-techtonic).

## Engineering / General Management

* As a division officer on a submarine, supervised the daily operations of a nuclear reactor and engine room at sea and in port, maintaining electrical power to vital systems throughout the submarine.
* Led teams through complex technical evolutions, during maintenance and casualty situations, maximizing efficiency while maintaining a safe environment.

## Training

* As the Command Training Team officer liaison, guided the planning and implementation of new training practices and procedures that included achieving 100% compliance with new Navy SAPR training guidance.
* Maintained 100% readiness as the branch Training Officer ensuring that personnel were always ready to meet mission objectives.

# EXPERIENCE

## 11/15 - Present, ***Senior Software Developer***

*@BAE Systems*

* Developing and implementing front-end architecture and workflow for multi-million dollar application
* Subject matter expert and experienced mentor on all things front-end (JS/HTML/CSS)

## 08/15 - 11/15, ***Senior Software Developer***

*@Leidos*

* Performed agile development using popular front-end technologies such as: Ampersand.js, Reveal.js, and Cesium.js

## 07/14 - 08/15, ***Senior Software Developer***

*@BAE Systems*

* Senior developer for multi-million dollar modern web application.
* Instrumental to implementing application infrastructure using MarionetteJS, HTML5, and Less.js

## 07/10 - 7/14, ***Strategic Plans Officer / Security Manager***

*@USSTRATCOM Joint Functional Component Command, Global Strike*

* Streamlined communication up chain of command and facilitated executive-level, biweekly planning meetings; improved planning process and enabled collaboration and senior leader strategic decision making.
* Consulted with multiple groups in US Strategic Command; provided technical counsel on projects involving ***network analysis*** and ***operations research***; improved products and furthered approval/development process.
* Modernized websites, maintained collaboration tools, created new tools for mission accomplishment, and maintained overall situational picture as division knowledge manager; improved productivity and efficiency.

## 05/06 – 07/10, ***Submarine Warfare Officer***

*@USS Louisiana (SSBN 743)*

* Led team to verify 100% of damage control gear prior to sub’s major Operational Reactor Safeguard Exam; ensured zero deficiencies and sub’s ability to combat any casualty, real or simulated, during patrols.
* Led efforts to improve tracking and control of top secret material; drafted and executed aggressive plan that successfully fixed sub’s wayward security program; led to no security-related discrepancies during inspection.
* Selected out of 10 officers as sub’s inaugural LAN officer; essential in writing operating instructions; maintained LAN with 100% compliance and no major discrepancies during inspections.

# PROFESSIONAL AWARDS

* **2017** Joint Service Achievement Medal
* **2014** Joint Service Commendation Medal
* **2011** Joint Service Achievement Medal
* **2010** Navy and Marine Corps Achievement

# EDUCATION

* **2012** Master of Arts, Mathematics, University of Nebraska at Omaha
* **2006** Bachelor of Arts, Mathematics, University of San Diego
* **2006** Bachelor of Arts, Physics, University of San Diego

# CERTIFICATIONS

* **2015** Certified Information Systems Security Professional (CISSP)
* **2015** Professional in Human Resources (PHR)

# OTHER

* Cleared for Top Secret information and granted access to Sensitive Compartmented Information based on a Single Scope Background Investigation.
* 2014 - Present Navy Selected Ready Reserve member
* 2011 - 2013 Tutored local high school students in Geometry and Trigonometry
* 2012 - 2013 Tutored online with tutor.com in Calculus and Algebra