Matt Osber

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**SUMMARY:** I am a seasoned software engineer with extensive experience across various languages and platforms. I have a very diverse skill set and a deep understanding of software development lifecycle and agile methodology.

Overall skill set includes:

* Languages: Java, PHP, Javascript, NodeJS, React, HTML 5, jQuery, CSS, Bootstrap
* Databases: MySQL, MongoDB, Oracle, JDBC, ODBC
* Tech and Tools: AWS, Jira, Intellij, Eclipse, PhpStorm, MySQL Workbench, Git, Bitbucket, Maven, Bamboo, JMeter, Slack
* Methodologies: Agile, Scrum, Code Reviews, API development, REST APIs, 3rd Party Integrations, , Automated Testing, Technical Design, Communication, Problem Solving

### Professional Experience

**Software Engineering Consultant** October 2022 - present

During this time I've focused on 2 separate engagements:

iCivics: Built Java application and MySQL data repository for tracking website statistics. The system performs ETL operations and integrates with numerous data sources including Google Analytics and AWS Timestream.

* Created Java connectors to Google and AWS services
* Executed transition from universal to GA4 Google analytics

Swing Blue Alliance: Act as primary administrator and web developer on the swingbluealliance.org Wordpress website.

* Customized theme
* Created shortcodes
* Integrated 3rd Party Plugins

**Director of Technology** March 2018 – October 2022

iCivics, Inc.

iCivics is a non-profit free educational resource that uses technology to engage students in civic learning.

At iCivics, I led the IT and product development efforts to advance the technology platform. I was the team leader in developing and managing the Drupal CMS and co-developer on the following projects:

* Built analytics reporting system including ETL components and reports using Google BI tools.
* Managed and implemented integration of Google Classroom
* Created quiz and assessment module
* Created and integrated lesson plan module using KAMI PDF annotation tool.

**Managing Senior Software Engineer** March 2014 – March 2018

Optum Analytics

Optum Analytics develops products to help the health care industry manage data more effectively to improve the outcomes for their patients I was a key contributor to the development of the Optum Analytics platform, a product used by health care professionals. In the time I was at Optum I led a number of projects on the Java platform, and worked with the team to transition the platform to Microstrategies.

* Designed and developed feature to segregate patient populations and protect identities based on guidelines from the HIPPA laws.
* Designed and developed usage reporting system to gather data from logs, aggregate it, and create reports for the business teams.

 **Principal Software Engineer**

Dub Labs October, 2012 – March, 2014

[www.dublabs.com](http://www.dublabs.com)

Dub Labs develops Campus Access, a mobile platform for the higher education market. My role is a developer and system integrator for the Java middleware component, which communicates with the mobile app on the frontend and college backend systems such as LDAP, Banner, Peoplesoft, Blackboard, and Desire2Learn.

* Developed middleware communication to the mobile application to perform authentication, directory services, and course information through a REST API.
* Developed multiple adapters for SIS and LMS systems customized for each college. The SIS systems are done through direct database connections, while the LMS systems generally work through REST APIs.
* Designed and developed communication protocol to support mobile course enrollment.
* Developed separate web application to support IOS push notifications.

 **Principal Software Engineer**

Scientific Learning November, 2006 – October, 2012

[www.scilearn.com](http://www.scilearn.com)

Scientific Learning develops Fast ForWord and Reading Assistant, products that help students accelerate learning through brain fitness and speech recognition. The system is a Java based multi-tiered system which uses Spring and Hibernate and integrates a number of Flash, Spring MVC and Ruby browser-based applications to deliver learning products over the internet.

 **Senior Software Engineer**

Bose Corporation July, 2002 – October, 2006

[www.bose.com](http://www.bose.com)

Worked in R & D as a developer of prototype applications of early stage home entertainment products at Bose. A typical application is a multi-threaded PC application that integrates remote controls, display drivers, and low level hardware interfaces with a high level user interface. Development is done in C#, Java, Python, and VB.

* Developed innovative IR remote control recognition system, which received patent approval in 2009.
* Developed prototype whole house music network to deliver music from a hard drive to multiple rooms.
* Integrated high level UI with intelligent music system that selects music based on user’s ratings.
* Developed complete UI prototype of Wave Music System over 1 year before product was shipped.

### Education

 **Brandeis University Graduated with Honors**

B.A. in Psychology, Magna Cum Laude

### Personal Interests and Volunteer Work

**Independent Game Developer**

I’ve developed a game that simulates presidential elections and the electoral college. It is published at <https://swingstategame.org>.

**Swing Blue Alliance**

Swing Blue Alliance is an all-volunteer, Democratic grassroots organization that develops evidence-based programs to help Democratic candidates protect our democracy.

I am the webmaster and primary developer of the Swing Blue Alliance website (<https://swingbluealliance.org>) as well as developer of a number of key technology components used by the organization.

**My Moral Compass**

My Moral Compass <http://my-moral-compass.com> is a personal project that utilizes my writing, web design, and technology skills. It is a web site based on a series of articles I've written on events in our history where people have made moral choices. There are articles, resources, and links for each event, and each has a section where we (with the benefit of hindsight) get to give them a report card.

Each topic contains the article, video and graphic resources, links, and an electronic scorecard. I've developed the framework for the site which includes an authoring system and a hosted site built in Wordpress and PHP.

**Global Warming Education Network (**[**www.gwenet.org**](http://www.gwenet.org)**)**

Developed web pages for “Connect the Dots” section of web site. GWEN is a Massachusetts non-profit dedicated to education about the dangers of global warming.