

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

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

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

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

B.A. in Psychology, Magna Cum Laude

Graduated with Honors

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)

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.