

## CARL A. VON BUELOW

ANN ARBOR, MI | CVBUELOW@GMAIL.COM | (734) 255-2960 | PORTFOLIO: HTTP://CVBUELOW.COM

- Passionate about JavaScript and web app performance
- Been developing websites and apps for the past 12 years
- Loves coding, solving problems and creating innovative user experiences using ES6 JavaScript, React, CSS3, HTML5, and many other cutting-edge technologies

### EXPERIENCE

FRONTEND ARCHITECT | WALMART ECOMMERCE @WALMARTLABS | ANN ARBOR, MI | JAN 2017 – PRESENT

- Currently the #1 contributor on Walmart eCommerce GitHub out of ~16,000 active contributors
- UI architect for [www.samsclub.com](http://www.samsclub.com) and [m.samsclub.com](http://m.samsclub.com)
- Responsible for site performance, technology strategy, design patterns, and overall frontend architecture
- Focusing on increasing conversion by improving site speed, and migrating to one adaptive React site
- Providing mentoring, guidance and code reviews for team of 40 frontend engineers
- UI lead for integrating Sam's Club auto replenishment flow with Samsung SmartThings app

SR. SOFTWARE ENGINEER | MAR 2015 – JAN 2017

- UI architect for [m.samsclub.com](http://m.samsclub.com) developing in React, Redux and ES6
- Lead developer for special sales event bringing in \$9M where I engineered a solution to optimize caching between NodeJS middleware, Akamai, and the client to handle heavy traffic loads
- Rewrote payments section of checkout in Angular, significantly contributing to a 100% increase in conversion

SR. JAVASCRIPT ENGINEER | CENGAGE LEARNING | FARMINGTON HILLS, MI | SEP 2014 – MAR 2015

- Developer for MindTap platform working on homework and book reader apps
- Improved developer workflow reducing feedback loop from a few minutes to a few seconds
- Engineered JavaScript packaging system for delivery of dynamic dependency bundles

JAVASCRIPT ENGINEER | PROQUEST | ANN ARBOR, MI | MAY 2014 – SEP 2014

- Lead JavaScript engineer on an Agile Scrum team developing Angular based analytics dashboard app
- Created reusable D3 graphs to display analytics of dissertation retrievals for a given university

JAVASCRIPT SOFTWARE DEVELOPER | GENERAL MOTORS/ ONSTAR | DETROIT, MI | AUG 2013 – MAY 2014

- Built JavaScript apps for GM's next generation infotainment system used in cars like the Cadillac ELR
- Developed AppShop and apps to manage accounts, purchase services, and control in-vehicle 4G LTE data connections and Wi-Fi hotspots
- Created app theme specific to Opel vehicles for General Motors' European market
- Produced software using Agile, Scrum, and XP development methods as part of GM's OnStar division
- Technology stack included JavaScript, Angular, Jasmine, Karma, Git, Node.js, Bower, Grunt and Jenkins

FULL STACK WEB DEVELOPER (LAMP) | MICHIGAN CREATIVE – UNIVERSITY OF MICHIGAN | ANN ARBOR, MI | NOV 2011 – AUG 2013

- Built JavaScript heavy research funding site, MCubed, to distribute \$15M to faculty research projects
- Developed award-winning Drupal site for the MHealthy program to track exercise time
- University of Cambridge and U-M collaborative site for English language assessments
- UI and UX design for various sites including U-M 2012 London Olympics portal

FULL STACK WEB DEVELOPER (LAMP) | WTW DESIGN GROUP | ANN ARBOR, MI | SEP 2008 – JUL 2012

- Designed, developed, and marketed multi-language YouTube iGoogle app to produce ad revenue
- Created German Bundesliga app to deliver match results and videos, producing ad revenue from 94,000 daily impressions
- Used Facebook API to develop "Saint of the Day" application reaching an install base of 15,000 users
- Built Drupal screen reader module to read page content out loud using Google Translate API
- Developed live chat system for site visitors to get real-time help from site administrators

#### FULL STACK WEB DEVELOPER (LAMP) | NOLOGY DIGITAL | ANN ARBOR, MI | AUG 2009 – MAR 2010

- Built foreclosures search engine requiring a paid subscription to query 800,000 records and display geo-coded results using JavaScript, Google Maps, and Streetview with optional email notification of new search matches
- Worked on legalnews.com overhaul and built a custom content management system

#### AEROSPACE ENGINEER | AIRFLOW SCIENCES CORPORATION | LIVONIA, MI | JAN 2007 – APR 2009

- Led team of engineers and lab technicians to design, build and analyze the aerodynamic properties of physical flow models
- Designed flow control devices to achieve client specified velocity profiles, pressures, and concentrations of gas/air mixtures
- Performed wind tunnel testing and on site field testing
- Developed JavaScript driven contact management web app to interface with existing desktop application
- Developed home management web app with interactive floor plans and tracking of maintenance and cleaning schedules
- Built secure file serving web application for clients to download files from corporate file system

#### PHP/JAVASCRIPT DEVELOPER | MEICIGAMA SYSTEMS | SOUTHFIELD, MI | APR 2006 – AUG 2008

- Built PHP/JavaScript site for Jet's Pizza including store locator, shopping cart, pizza builder, fax notification of online orders, user order history, and CMS to manage prices, coupons, and stores across the country
- Developed custom CMS with widgets for photo processing, drag-and-drop sorting, calendar-based date selection, rich-text editing, and database driven auto-suggest on text fields

#### EDUCATION

##### UNIVERSITY OF MICHIGAN | BSE AEROSPACE ENGINEERING | ANN ARBOR, MI | AUG 2002 – DEC 2006

#### HONORS AND AWARDS

- University of Michigan Human Resources Partnership Award 2012
- Roth Memorial Award for Outstanding Scholarship in Sophomore Physics
- Eagle Scout Award