

Greg Sandell

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About Me

I am a PhD-educated Fullstack Software Developer who delivers enterprise solutions of high quality and reliability to meet the needs of growing companies. I integrate customer-facing websites with APIs and third party products, and solve challenges with communication between multiple tiers of distributed systems. I am also an accomplished classical pianist, electric bass player, and composer.

Experience

OCT 2017 – MAY 2020

Crocs Inc. — *Senior Software Developer*

- Web software development for **crocs.com** eCommerce site operating in 14 countries, 8 languages and 10 payment processors, with \$1.2 bil in 2019 sales
- Integrated platform with third party eCommerce services: PayPal, Givex giftcards, Adyen, CardConnect, Signal Tag Manager, Kount Fraud Manager, Olapic, Narvar, and Adobe Audience Manager analytics
- Developed custom multi-tiered, distribute web applications for the QA team to run scheduled Automated UI Tests in batches and receive reports. Please see this demo video: <https://bit.ly/2YCvwIJ>
- Wrote a custom copy of the *Firebase* pub/sub NoSQL database using WebSockets (employer did not want to buy the product)
- Solved latency, asynchrony, and race condition issues
- Wrote CSS queries that work reliably across major mobile and desktop web browsers
- Provided Automated UI Test coverage for the eCommerce site including all phases of the purchase lifecycle, shopping cart interaction, product returns, payment processing, user profile and fraud detection.
- Provide training & mentoring to junior developers on Javascript, Node.js and SFCC; give presentations to developers and cross-functional teams on React and Automated UI Testing.
- Work with new fulfillment/distribution centers coming online by creating bulk test orders in the SAP Supply chain
- Tools: Salesforce Commerce Cloud controllers, web services and .ismf's; Node.js, React/Redux, ES6 Core Javascript, Git, SourceTree, Express, AWS cloud, Sqlite, REST, Advanced Rest Client,, Ajax, PassportJS token based authentication, pub/sub messaging with WebSockets, Bash, BrowserStack, Selenium, internJS, leadfoot, eureQa, Bootstrap, Material-UI

AUG 2017 – NOV 2017

UC Irvine / Trilogy Ed — *Part Time Course Instructor*

- Instructor for "Fullstack Developer" bootcam
- I have many presentation stacks on topics taught
- Tools taught: HTML5, CSS3, Git, Bootstrap, Javascript, jQuery, Ajax, Firebase, Node.js

APR 2016 – JUNE 2017

Ten-X, Irvine, CA - *Sr. Software Engineer*

- Developed presentation layer and application logic for hosted web application *auction.com*, a Real Estate auction transaction platform
- Responsible for auction.com features Search & Discovery, Event Details, Calendar, User prefs and personalization, and Home page
- Provided engineering help to QA team by writing UI Automation tests (demo: <http://bit.ly/2wUjFcS>)
- Design and troubleshooting of REST and JSON-based backend, services
- Tools: Node.js, React, Redux, Angular 1.45ES6 core Javascript, Git, Babel, WebPack, REST, Advanced Rest Client, ArcGIS, Python, Selenium, Nightwatch, LaunchDarkly feature flags, HTML5, CSS3

OCT 2015 - MAR 2016

John Deere, Moline, IL - *Front End Developer Consultant*

- Developed Front End, middleware and test coverage for hosted web application 'Sales Center', a 'build-a-Deere' tool for sales reps
- Collaborated with Back End team on design and troubleshooting of webservices
- Tools: Angular 1.4 controllers, views, directives and services; ES5 core Javascript, Git, REST, Advanced Rest Client, JSON, Mocha, Sinon and Chai unit testing, HTML5, CSS3

NOV 2014 - AUG 2015

CyberCoders, Irvine, CA - *Front End Java Developer*

- Front End Developer for hosted web application 'Compass', a CRM platform for Recruiters.
- Tools: Sencha ExtJS 4.0.7, ES5 core Javascript, Ajax, Jasmine unit tests, jMeter stress testing, HTML5, CSS3

NOV 2013 - JUNE 2014

Sears Holding Corporation, Chicago, IL - *Developer*

- Member of Core Mobile Front End development team supporting mobile version of sears.com eCommerce platform
- Created presentation layer from wireframes, redlines and Photoshop PSDs provided by designers
- Collaborated with Back End team on design and troubleshooting of webservices
- Launched mobile version of new features *Shop Your Way* (loyalty card) and *Shop Your Way Max* (Sears version of Amazon Prime).
- Tools: Angular 1.4 controllers, views, and services, REST, Advanced Rest Client, Git

AUG 2012 - AUG 2013

Pathfinder Software (now orthogonal.io), **Chicago, IL** - *Senior Software Engineer*

- Wrote mobile apps (iPhone, iPad) for medical clients Kimberly-Clark, Haemonetics, and Amer. Assn. of Critical Care Nurses
- Lead developer on iPhone app that was deployed in Apple AppStore (*AACN Bedside*)
- Lead developer for web-based census and demographic data-mining tool (*MetroPulse Chicago*: demo: <http://bit.ly/2wU5Yun>)
- Lead developer on an iPad 'concierge' app to connect heart patients, their nurses and caregivers (*ContinuCare*) and a blood drive simulation sales tool for the iPad (*Automated Whole Blood Collector*)
- Tools: hybrid web/iOS AngularJS and jQuery Mobile, Trigger.io, TestFlight, Ruby on Rails, Heroku

APR 2010 - AUG 2012

Truven Health Analytics, Chicago, IL - *Senior Software Engineer*

- Developed hosted enterprise web applications *CareDiscovery* and *IntegrationDiscovery*, Business Intelligence and data mining tools for a 4 TB Oracle OLAP Data Warehouse of Hospital Billing data
- Tools: J2EE, Java 1.4 & 6 Servlets, IBM Websphere Portal 5, Tomcat 6, Glassfish, JSP, jQuery and ES5 core Javascript, PL/SQL stored procedures

OCT 2008 - MAR 2010

iCrossing, Chicago, IL - *Senior Software Engineer*

- Front End Developer for hosted web application *Merchantize*, an Ad Technology tool for managing clients' Paid Search campaigns, keyword purchases and cost-per-click advertising with major search and shopping engines (Google, Yahoo, MSN, NexTag, PriceGrabber)
- Consumed streaming XML-based product feeds for clients Sears, The Gap, Hilton, Lands End, LEGO, and Williams Sonoma with scheduled processes
- Wrote PDF reports, cleaned product feeds and resolved data integrity issues, distinguished between multiple types of character encodings
- Tools: Java, Bash, Perl, Cron, Apache POI, Mysql

FEB 2008 - OCT 2008

Chicago Tribune, Chicago, IL - *Senior Internet Applications Developer*

Developed web software and content management behind a nationwide family of Tribune newspaper holdings, radio and television websites in Chicago, Los Angeles, Baltimore and Florida

Created scheduled jobs for sweeping expired database content and JMeter test plans to simulate heavy load on high-profile chicagotribune.com website.

Tools: J2EE, Java 1.5, Java Tag Libraries, Oracle Application Server 10g, Oracle DB 10g, FAST search server, Sun Webserver (iPlanet), TopLink 9.0 web services.

Education

Northwestern University, Evanston, IL – *PhD Music Theory*

Cross-disciplinary curriculum including music theory, auditory perception, computer science and music synthesizer research. Dissertation: <http://bit.ly/2wUbFZq>

Eastman School of Music, Rochester, NY – *MA Music Theory*

Analysis techniques on classical and 20th Century music. Formal computer programming studies. Thesis on Edgard Varèse: <https://bit.ly/3bGS1k4>.

California State University, Los Angeles, CA – *BM Piano Performance*

Performed Junior and Senior recitals, placed in competitions, and performed Beethoven concerto with orchestra.

Certifications

March 2005: Sun Certified Web Component Developer for J2EE 1.4 (SCWCD)

Apr 2004: Sun Certified Programmer for the Java 2 Platform 1.4 (SCJP)

References

Available on request.