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.

Capabilities and Languagess

- ✔ Hosted Web Applications
- ✔ Front End Architecture
- ✔ React - Node.js - Express
- ✔ FlexBox, CSS Grid
- ✔ Component libraries

- ✔ REST api libraries
- ✔ Database design & integrity
- ✔ Websocket Pub-Sub messaging
- ✔ Token based security
- ✔ Automated UI Testing

- ✔ Stress/load testing
- ✔ AWS EC2 & Serverless
- ✔ Git – TDD - Linting
- ✔ Salesforce SFCC
- ✔ Java – Maven - Tomcat

Experience

AUG 2020 – OCT 2020

Neocova — *Fullstack Developer Consultant*

- St. Louis startup in Core Banking software in early funding stages
- Assisted development team with Front End tech stack selection and styleguide adoption
- Developied reusable components for company products *AMBIOS* and *Customer Insights*
- Tools: React, React Hooks, Node.js, Flexbox, Figma, Git Packages

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
- 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.
- Developed custom multi-tiered, distributed 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
- Solved latency, asynchrony, and race condition issues in Automated UI Tests
- Secured web applications with PassportJS token-based authentication
- Integrated Salesforce Commerce Cloud platform with third party eCommerce services
- Created a pub/sub NoSQL database using WebSockets modelled after Firebase
- Wrote CSS queries that work reliably across major mobile and desktop web browsers
- Provided training & mentoring to junior developers on Javascript, Node.js and SFCC; give presentations to to developers and cross-functional teams on React and Automated UI Testing.
- Tools: React/Redux, ES6 Core Javascript, Node.js, Express, Salesforce Commerce Cloud web

development, AWS EC2, Sqlite, REST, Ajax, WebSockets, Bash, BrowserStack, Selenium

AUG 2017 – NOV 2017
UC Irvine / Trilogy Ed — *Part Time Course Instructor*

- Instructor for "Fullstack Developer" bootcamp
- Developed presentation stacks for 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)
- Designed and troubleshooted 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 web services
- Tools: Angular 1.4, 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*

- Developer on team supporting *Compass*, the in-house CRM tool for partner *Oxford International*
- 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*

- Developer on *sears.com* Core Mobile Front End development team to launch *Shop Your Way* (loyalty card) and *Shop Your Way Max* (Amazon Prime-ish).
- Tools: Angular 1.4, REST, Advanced Rest Client, Git

AUG 2012 – AUG 2013
Pathfinder Software *(now orthogonal.io), Chicago, IL – Senior Software Engineer*

- Lead developer of mobile apps (iPhone, iPad) for medical clients Kimberly-Clark, Haemonetics, and Amer. Assn. of Critical Care Nurses
- 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)
- 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
- Tools: J2EE, Java 1.5, Java Tag Libraries, Oracle Application Server 10g, Oracle DB 10g, FAST search server, Sun Web server (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.