Bradley Bossard

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Software engineer and former Googler with 10+ years experience and an emphasis on frontend web development.

- Portfolio











Experience

Senior Software Engineer - VenueNext - 2016 - Present

VenueNext is a venture-funded startup building a platform for mobile and integrating all the services of a venue (ticketing, food & beverage ordering, loyalty, etc) in a single user experience. As a senior engineer on this remote team, my duties include

- Mobile development on both iOS and Android.
- Driving platform development, including API specification, UI design of platform features, and cross-platform feature implementation.

Lead Frontend Developer - Aniden Interactive - 2012-2016

Aniden is an interactive agency, where I was the lead developer on several frontend web projects utilizing Javascript, and Javascript frameworks and libraries.

- Yahoo Doodle Image spriting / loading / anmiation. Python was used for image pre-processing, pure Javascript for loading and animating the sprite.
- Race For The Stars Virtual reality game and web-based scoreboard. Technologies used included Unity / Javascript / Angular / Mongo / Express / Node JS.
- Finish Drawing Web app for drawing and navigating drawing gallery. Developed for Wacom Inkation hackathon and placed 3rd. Built using Javascript / Angular/ Mongo / Node JS and Wacom WILL library.
- History Of Baker Hughes Interactive tabletop timeline. Built using Javascript / jQuery / HTML5 canvas as a Chrome App.
- HP Discover Mobility Experience Trade show piece. Built with Javascript / Angular as a Chrome App.
- Cliphoarder Internal product, cloud-based clipboard tool. Technologies include Javascript / WinJS / Java Android / Dropbox and Skydrive APIs.
- Android Kiosk Apps Over 20 native Android apps (Java) for HP/Dell devices for retail applications.
- MPM Corporate project management webapp for visualizing project timelines. PHP / MySQL backend, Javascript / jQuery / jQuery UI frontend.
- Digital Signage Multiple 120" touchwall kiosk projects. Technologies used included Flash / Javascript / Angular / HTML5 canvas.

Experience cont.

Software Engineer - Google - 2007-2012

While at Google, I have namely worked in digital mapping technologies, and have been involved in...

- Google Earth 3D Buildings Automated creation of 3D buildings using LIDAR and aerial imagery. Written
 in C++.
- Google Builing Maker Image processing pipeline and server for serving aerial imagery. Written in C++.
- Wapner Django-based internal tool for scoring 3D content. Patent issued for work on this project. Implemented with Django and Javascript.
- Google Street View Javascript / Flash code for Google Street View and Google Maps. Particular tasks included refactoring embed codebase, and rendering code for 3D overlays in driving directions.
- Specialty Pegmen 20% Project. Created 3D modeling and sprite generation pipeline for authoring over 20 Street View "specialty Pegman". Technologies involved Python / ImageMagick for image processing and C++ / Javascript additions to Google Maps code base for defining launch regions.



- Google Doodle Gallery Built interactive gallery for viewing Google Doodles.
- Google Doodles First Google employee to hold title "Doodle Engineer". Authored and launched Google
 Doodles using raw Javascript / HTML / CSS for optimal code. Particular Google Doodles I authored include
 the following links below



Systems Engineer - Urban Scan - 2005 - 2007

Urban Scan was a small start-up focused on developing automated 3D modeling techniques for urban environments. Acquired by Google.

- Writing C++ code for real-time acquisition sensor platform composed of cameras, GPS, and laser scanners.
- Design and manufacture custom cabling / PCBs / power components.
- Evaluation, research and purchasing of all hardware used by the company.
- Point of contact for DARPA project integrators, including calls, travel to Washington D.C. and on-site integration.

Side Projects

Tech Lead / CTO - DentalEMR - 2015

Cloud-based dental EMR (electronic medical records) webapp. Built using Python Django REST framework / POSTGres / Angular / Gulp. Hosted on AWS.

- Architected design and evaluated technology based on requirements.
- Refined wireframes.
- Interviewed and hired additional team members.
- Agile project management and sprint planning.
- Led SCRUMM meetings.

Education

MSECE, Electrical and Computer Engineering - University of Iowa - 2001-2003

BSEE, Electrical Engineering - University of Iowa - 1998-2001

Patents
Evaluating Three-Dimensional Geographical Environments Using A Divided Bounding Area
Publications
Generation of Real-Time Synthetic Environment Using a Mobile Sensor Platform