

# Bradley Bossard

Polyglot software engineer with over 15 years of experience

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## Experience

### Senior Software Engineer - [moovel](#) - 2017 - Present

moovel develops white label mobile ticketing solutions for transit agencies.

- Microservice development and architecture
- Docker, Kubernetes and AWS
- NodeJS and Go

### Senior Software Engineer - [VenueNext](#) - 2016

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, backend API design.

### 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 / animation. 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.

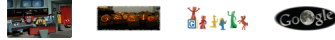
### Software Engineer - [Google](#) - 2007-2012

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



## **Experience cont.**

### **Systems Engineer - Urban Scan - 2005 - 2007**

Urban Scan was a start-up focused on automated 3D model generation for urban environments. Acquired by Google and scaled for Google Earth

- Wrote C++ real-time acquisition sensor platform composed of cameras, GPS, and laser scanners.
- Design and manufactured custom data collection hardware
- Rresearch and purchasing of all hardware used by the company.
- Point of contact for DARPA project integrators

## **Consulting**

### **CTO - DentalEMR - 2015**

Cloud-based electronic medical records webapp

- Architected and developed Django/Angular application hosted on AWS
- Interviewed and hired additional team members.
- Agile project management and sprint planning, acting SCRUMM master

## **Education**

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

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

## **Patents and Publications**

**Evaluating Three-Dimensional Geographical Environments Using A Divided Bounding Area**

**Generation of Real-Time Synthetic Environment Using a Mobile Sensor Platform**