# Bradley Bossard

Polyglot software engineer with over 15 years of experience

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## Experience

**Senior Software Engineer -** [**moovel**](https://www.moovel.com/en) **- *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**](http://www.venuenext.com/) **- *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**](http://www.aniden.com/) **- *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](http://aniden.com/project/yahoo_logo) - Image spriting / loading / anmiation. Python was used for image pre-processing, pure Javascript for loading and animating the sprite.
* [Race For The Stars](http://aniden.com/project/race_for_the_stars) - Virtual reality game and web-based scoreboard. Technologies used included Unity / Javascript / Angular / Mongo / Express / Node JS.
* [Finish Drawing](http://finishdrawing.com) - Web app for drawing and navigating drawing gallery. Developed for [Wacom Inkation](http://devpost.com/software/finishdrawing-com) hackathon and placed 3rd. Built using Javascript / Angular/ Mongo / Node JS and Wacom WILL library.
* [History Of Baker Hughes](http://aniden.com/project/bh_timeline) - Interactive tabletop timeline. Built using Javascript / jQuery / HTML5 canvas as a Chrome App.

**Software Engineer -** [**Google**](http://www.google.com) **- *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](http://www.google.com/earth/learn/3dbuildings.html) - Image processing pipeline and server for serving aerial imagery. Written in C++.
* *Wapner* - Django-based internal tool for scoring 3D content. [Patent](http://www.google.com/patents/US20150143301) issued for work on this project. Implemented with Django and Javascript.
* [Google Street View](https://www.google.com/maps/streetview/) - 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](https://www.google.co.in/intl/en/help/maps/streetview/learn/pegman.html) - 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](https://www.google.com/doodles) - Built interactive gallery for viewing Google Doodles.
* [Google Doodles](https://www.google.com/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

[](http://www.google.com/doodles/46th-anniversary-of-star-treks-1st-broadcast)   [](http://www.google.com/doodles/halloween-2011)   [](http://www.google.com/doodles/art-clokeys-90th-birthday)   [](http://www.google.com/doodles/total-lunar-eclipse-live-imagery-provided-by-slooh)

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**](https://dentalemr.com) **- *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](http://www.uiowa.edu/) - *2001-2003*

**BSEE, Electrical Engineering** - [University of Iowa](http://www.uiowa.edu/) - *1998-2001*

## Patents and Publications

[Evaluating Three-Dimensional Geographical Environments Using A Divided Bounding Area](http://www.google.com/patents/US20150143301)

[Generation of Real-Time Synthetic Environment Using a Mobile Sensor Platform](https://www.nads-sc.uiowa.edu/dscna/2001/Papers/Papelis%20_%20Generation%20of%20Real-Time%20Synthetic%20Environment....pdf)