# Bradley Bossard

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## Experience

**Senior Fullstack Engineer** @ [UrbanFootprint](https://www.urbanfootprint.com) *1/2020–present*

Urban intelligence SAAS platform for analyzing urban development scenarios.

* Data rich [react](https://reactjs.org/)/[redux](https://redux.js.org/) frontend with [typescript](https://www.typescriptlang.org/). Tested via [mocha](https://mochajs.org/), [chai](https://www.chaijs.com/), [applitools](https://applitools.com/) and [percy](https://percy.io/)
* Backend development with [python](https://www.python.org/), [flask](https://palletsprojects.com/p/flask/), [sqlalchemy](https://www.sqlalchemy.org/), [postgres](https://www.postgresql.org/), and [pytest](https://docs.pytest.org/).
* Geospatial processing ala [fiona](https://pypi.org/project/Fiona/), [shapely](https://pypi.org/project/Shapely/), [proj](https://proj.org/), [svgwrite](https://pypi.org/project/svgwrite/)
* Agile methodolgoy with [jira](https://www.atlassian.com/software/jira), sprint planning, staging and retros. Full remote position and team.

**Senior Software Engineer** @ [moovel](https://www.moovel.com/en) *1/2017–1/2020*

Mobile ticketing solutions for public transit agencies.

* Micro services development with [node](https://nodejs.org/en/), [go](https://golang.org/), [python](https://www.python.org/), [docker](https://www.docker.com/), [kubernetes](https://kubernetes.io/) and [aws](https://aws.amazon.com/)
* API design and implementaton with [REST](https://restfulapi.net/) and [graphQL](https://graphql.org/)
* Database experience with [mysql](https://www.mysql.com/) and [postgres](https://www.postgresql.org/)
* Agile methodolgoy with [jira](https://www.atlassian.com/software/jira), sprints and CI/CD code promotion process

**Lead Fullstack Developer** @ Aniden (defunct) *6/2012–12/2016*

Digital interactive agency serving large clients including [HP](https://www.hp.com/), [Dell](https://www.dell.com/), [Yahoo](https://www.yahoo.com/) and [Logitech](https://www.logitech.com/).

* Fast paced environment required ramping up on new technologies quickly
* Remote team member with proven ability to communicate as such
* Large variety of projects with technologies ranging from [flash](https://get.adobe.com/flashplayer/about/), [php](https://www.php.net/), [javascript](https://www.javascript.com/), [jquery](https://jquery.com/), & [angularjs](https://angularjs.org/)

**Senior Software Engineer** @ [Google](https://www.google.com) *6/2007–2/2012*

Internet search company.

* [Google Earth](https://www.google.com/earth/) - Automated generation of 3D buildings from raw sensor data using [c++](https://isocpp.org/)
* [Google Building Maker](https://googleblog.blogspot.com/2009/10/introducing-google-building-maker.html) - Oblique image tiling and serving pipeline using [c++](https://isocpp.org/)
* *Wapner* - Internal [patented](http://www.google.com/patents/US20150143301) [django](https://www.djangoproject.com/) webapp for scoring 3D content.
* [Google Street View](https://www.google.com/maps/streetview/) - Frontend [flash](https://get.adobe.com/flashplayer/about/) and [javascript](https://www.javascript.com/) clients for viewing panoramic imagery
* [Doodle Gallery](https://www.google.com/doodles) - [django](https://www.djangoproject.com/) webapp for viewing doodles
* Google Doodles - Interactive doodles on homepage using raw [javascript](https://www.javascript.com/) Samples: [1](https://www.google.com/doodles/total-lunar-eclipse-live-imagery-provided-by-slooh) [2](https://www.google.com/doodles/art-clokeys-90th-birthday) [3](https://www.google.com/doodles/lucille-balls-100th-birthday) [4](https://www.google.com/doodles/halloween-2011) [5](https://www.google.com/doodles/46th-anniversary-of-star-treks-1st-broadcast)

**Systems Engineer** @ UrbanScan (acquired by [Google](https://www.google.com)) *5/2005–6/2007*

Automated 3D model generation for urban environments.

* Real-time acquisition sensor platform composed of cameras, GPS, and laser scanners using [c++](https://isocpp.org/)
* Design and manufacture of custom data collection hardware.
* Research and purchasing of all hardware used by the company.
* Point of contact for DARPA project integrators.

## Education

**Masters of Electrical and Computer Engineering** @ [U of Iowa](http://www.uiowa.edu/) [thesis](https://www.nads-sc.uiowa.edu/dscna/2001/Papers/Papelis%20_%20Generation%20of%20Real-Time%20Synthetic%20Environment....pdf) *2001–2003*

**BSEE, Bachelors of Electrical Engineering** @ [U of Iowa](http://www.uiowa.edu/) *1998–2001*