

# James Harlan

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**Strong :** JavaScript · Angular · Jasmine · jQuery · HTML · CSS · JSON · Agile · Scrum  
**Proficient :** Node.JS · Express · Gulp · Grunt · Backbone · MySQL · MongoDB · Socket.IO · D3 · Mocha · Chai · React · Jest

## Recent Projects

**SquirrelSearch** Team Lead *mobile treasure hunting web app* [squirrelsearch.us](http://squirrelsearch.us)

- Lead development of product, emphasizing user experience and functionality
- Specified API to facilitate early integration of data flow
- Developed user story and corresponding story boards for application view implementation

**JSVS** Backend Engineer *live coding app* [github](https://github.com)

- Connected users in rooms for predictable user experience using WebSockets
- Deployed codebase to Heroku,

**Murmur** Scrum Master *geolocation chat app*

- Tested front end components using Jest to maintain a working codebase during feature addition
- Implemented sorting of message based on user proximity
- Automated deployment process using Gulp

**Emirates Travel Hackathon** 2nd Place Group *social flight booking app*

**nand2Tetris** Blah *build a modern computer from first principles*

## Professional

**MakerSquare** Fellow 2015-2016

- Provided technical guidance to students during completion of two day sprints on varied JavaScript
- Lead classroom learning of web development basics in a nightly course
- Interviewed and evaluated potential candidates for technical ability and cultural fit

**Red Fork Directional, LLC** Owner / Field Engineer 2014

- Provided directional drilling consulting services
- Integrated third party telemetry technology

**Halliburton Energy Services** Field Engineer 2010-2013

- Ensured third party hardware was correctly configured to meet engineering specification and project goals
- Debugged complex systems and equipment to maintain operational efficiency
- Managed team of fellow engineers to complete projects in timely and efficient manner

## Education

**MakerSquare** *full-stack software engineering immersive* 2015

**Univeristy of Wyoming** *Engineering and Applied Sciences* 2004-2010

MA Mechanical Engineering

- Research in mateials science and fluid dynamics
- Analyzed data in Fortran and visualized using MATLAB, simulated atomic interactions from first principles

BA Mechanical Engineering | merit scholarships and engineering excellence awards | *cum laude*

- Implemented control systems in robotic projects using microcontrollers and motion control hardware