James Harlan

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

Recent Projects

SquirrelSearch Product Owner/Engineer *mobile treasure hunting web app* squirrelsearch.us

· Lead development of product using scrum methodology and daily standups
· Developed process for geotagging photos using HTML5 getUserMedia and geolocation APIs
· Implemented in-browser photo editing using Canvas and Angular Directives
· Integrated software architecture and specified application APIs

JSVS Fullstack Engineer *live coding app* github repo

· Connected users in rooms for predictable user experience using WebSockets and Angular MVC
· Managed infrastructure changes and releases, deployed codebase to Heroku
· Designed app branding and user experience

Murmur Scrum Master *location based chat app* github repo

· Tested React components using Jest to maintain a working codebase during feature addition
· Implemented sorting of message based on user proximity using geolocation
· Automated deployment process using Gulp, performed code review on team commits

nand2Tetris learning project *build a modern computer from first principles*

· Developed von Neuman machine from basic NAND gate, including registers, ALU and CPU

Professional

MakerSquare Fellow 2015-2016

· Provided technical guidance to students during completion of two day sprints on varied JavaScript
· Classroom instruction of web development basics including HTML, CSS, and JavaScript
· Interviewed and evaluated potential candidates for technical ability and cultural fit

Red Fork Directional, LLC Owner / Field Engineer 2014

· Integrated third party telemetry technology and provided directional drilling consulting services
· Worked in a interdisciplinary team to plan and execute complex projects within strict deadlines

Halliburton Energy Services Field Engineer 2010-2013

· Analyzed real time data to monitor wellbore conditions and varied input parameters to prevent equipment failures
· Debugged complex systems and equipment to maintain operational efficiency
· Ensured third party hardware was correctly configured to meet engineering specification and project goals

Awards

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

Education

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

MS Mechanical Engineering

· Research in materials science and fluid dynamics, designed and performed laboratory experiments
· Analyzed data using Fortran and visualized using MATLAB, simulated atomic interactions

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

· Implemented control systems in robotic projects using Atmel microcontrollers and stepper motors

Personal

I have rural ranch roots where I developed a strong work ethic and desire to build. I have been interested in the use of technology to solve complex problems my entire life. My engineering passion has lead me to the fields of mechanical engineering, horizontal drilling, and software. I enjoy outdoor activities such as hiking, skiing and traveling to new places.