

Personal

Samuel Huelsdonk

sam.huelsdonk@gmail.com

<https://www.linkedin.com/in/huelsdonk/>

Lincoln, NE 68508

402.304.2485

Seeking

Work involving WebGL and/or Firebase with a Javascript focus. Working experience with meta and OG tags rendered server side, fast client side load, scale on demand and realtime data. A get it done person, happy to fill any and all roles on teams as needed - using whatever tools including finding new techniques.

Education

Rose-Hulman, BS, Computer Engineering, '92-'95

Nebraska Wesleyan, Computer Science, '91-'92

Contract Projects (many sourced from Upwork) 2012 - present

Overlapping Social27 work - learned jQuery and transitioned thru various tools figuring out a web based skillset, platform and frameworks to use - migrated from asp.net/webforms, to asp.net/mvc (with jQuery, SQL Server) and transitioned to Mongo, MySQL until finally landing with Firebase (Firestore/RTDB), Vanilla (or whatever MVC Framework - often React) - scale on Demand, Node backend

Self Funded Projects

Locate.Beer - Local beer recommendation and suggestion system based on Firebase platform - SEO, Social and spreadsheet tools focus. Collaboration with local professionals to promote Nebraska brewed beer.

Handtop.com - Spreadsheet to 3D (webGL) tools based on Firebase platform. On going career focus to advance skills and provide RAD tools for creating 3D scenes to develop with.

Larger Contract Projects

Bitmymoney.com - High/low guess game - server side for push notifications and data

Started with a guess higher or lower game in javascript based on RTDB (Firebase) for users and integrating with their coin pricing API - was a test of concept - kept the scope small and delivered quickly and cleanly. Moved onto adding push notification for their existing coin trading app for high and low limit tests (not trades - sends notifications to phones) - new highs for coins were also sent to users (100k+). Handled storing the high/low limit tests stored by users with cloud function based API. Swagger.io was used as the API framework.

Syncfoundry.com - Google Sheets Add-On for Marketing Automation Software

Started doing a few small scripts in the evening for someone working during the day at SplashThat. Moved onto a sheets based addon for integrating CRM APIs (Pardot/SalesForce, Pipedrive, Splash) so they can be imported into sheets. Involved a web app for billing and payments, integrated React app into sheets side panel after creating a functioning prototype in Vanilla JS. Firestore was the datasource, integration between Sheets and role based authentication (and billing) for groups of users. Postman was used to define and test the server side API.

Golf Swing Analysis App - Refactored Server Side Cloud API (RTDB trigger based)

Combined 10+ projects into one, each cloud function on GCP was an individual project, allowed code reuse, easier debugging. Cleaned up several bugs and improved performance on billing and speed by refactoring

promise/async based code to chain and return promises - reason for the hire was to stop cloud functions from timing out due to badly handled errors and/or not resolving.

Bluebgi.com - Web Application / Firebase Developer / Native App API / Sensor Integration

Picked up a part done Smart Skipper Webapp and finished scope, supported native app developers with a server side API and code examples of how to integrate various sensor messaging. GPS coordinates, Google Maps, Vue, RTDB and integration to proprietary sensor messages. Asynchronous display of state from RTDB, API to send message to sensors and update RTDB.

Delight iOS Dating App - Server side API, Realtime data, AI integrations

Server side API to compliment Firestore iOS app. Integrated a few facial recognition APIs (picked the best of the bunch), identity verification API, generated suggestions based on profile matches and created test data with ability to insert copies per zipcode. Admin UI was web based using custom token for security. Firebase authorization including triggers to delete all related account data when a user is deleted.

Betchicago.com - Sporting and Betting News Website

Scale on demand seo and social focused webapp (later phase native apps). Implemented when firebase functions were released with support for generating web pages server side.

Imminentdigital.com - Employee Engagement Software - with Charity/donation focus and matching

Angular iterations from 1.5 to 4, Mongo, Node with a rich client. Solution to support OG tags was added mid project (server side), social feed application supporting a large variety of integrations. Design team had poor understanding of keeping data private versus posting to social sites such as Facebook and Twitter - had to communicate, coordinate and iterate to working solutions.

Older History

Javascript/AWS/Firebase

1/13 thru Present

Independent, Lincoln, NE

AWS, Firebase, Angular, Bootstrap, Node

Remote projects with a heavy focus on Javascript and AWS moving to Firebase. Angular, React, jQuery, Swagger, Node/Express, Bootstrap, Material are libraries I have extensive experience with. I'm proficient with promises, queries (SQL or noSQL), processing and displaying data.

SurvivorPlan.io -> used Material, Angular 1.5, Swagger, Node, Auth0, EMR, Beanstalk, AWS, Redox (JSON EMR company) to deliver a SaSS product for cancer survivors. It was a rules based engine that takes patient medical history, medications and current symptoms to generate a multi year schedule of patient care.

Imminent Digital / Oahu -> used Bootstrap, Angular 2.0 (->4.0), Typescript, AWS, Swagger 2.0, Firebase (for messaging and pushed notifications). The product is a social website design, focused on enterprise employees contributing volunteer time and charitable donations with matching and recognition from employers.

Upwork profile -> 10+ small to medium sized projects on upwork - 100% success with 5/5 rating. Refer to the profile for the positive feedback and comments.

HTML5/MVC Developer/Consultant

6/11 thru 12/12

Social27, Seattle, WA

jQuery,TSQL,TFS,.net,WCF,MVC,DOM,XML,JSON,Azure,S3

Reusable cloud based conference and virtual academy platform consisting of a backend (WCF), configuration (MVC 3) and front end (ASP.NET) components.

- redesigned booth and products presentation

- designed and implemented quiz and polling system
- assisted design and implementation of gamefication engine
- reworked mobile html applications for Windows 8, Andriod and iPhone
- processed user agent strings to deliver video best optimized for each device
- many small to large animations and automations with javascript
- optimization for page load time
- added data caching to WCF to remove database load
- enhanced output caching to include user agent string for different devices
- cleaned up session access for distributed sessions
- worked with deploying to both S3 and Azure clouds
- clients include Microsoft, SAP, Dell and ITMedia
- created conversion scheme for XML <-> JSON
- created drag and drop browser interfaces
- integrated and customized many jQuery controls

Developer and Tier 3 Support

5/09 thru 1/11

Nebraska Book, Lincoln, NE

TSQL,C++,COM,Stingray,POS,Accounting,C#,XML,Services,ADO,ODBC

Inventory, accounting and POS application maintenance

Many minor changes to a large Windows C++ client and SQL Server application

Web, windows service, ODBC and file communication channels maintained

Developed rental transaction flow between ICS and POS application servers

SQL, C# and jQuery Developer

C++ Developer/Contractor

5/07 thru 6/08

Allstate, Lincoln, NE

C++,COM,automated testing,DEFRA,TEFRA,regression,UL,VUL,Reprojections

Windows C++ application for projecting insurance futures contracts (UL and VUL)

Projections based on policy variations, output meeting model regs

Implemented proprietary calculations for advanced market-based UL hybrid product

Database Application Manager

8/05 thru 4/07

Healthware, Lincoln, NE

Objective C,Cocoa,OS X,UNIX,XCode,X12,Sprints,Agile,MVC

Medical billing software including electronic submission of insurance claims

Managed sprints, automated testing and software releases in agile process

Developed Macintosh interface and Intersystems Cache database integration

Agile Software Developer

1/04 thru 6/05

Automated Systems, Lincoln, NE

Delphi,Agile,Sprints,Unit Testing,C++,COM

Check imaging, crystal reports integration, multi-threaded ATM transport service

Principal team member in agile process automating sprint tracking and unit testing

Project Manager / Developer

1/00 thru 1/04

Handtop Software, Lincoln, NE

C++,HotSync,C,VB 5-6,PalmOS,MSI,Orca,Metrowerks,Embedded

Shareware applications for PalmOS including SuperNote and InfoView
Inventory and retail applications, including supporting Windows software

Illustration Developer / Analyst / Lead

3/98 thru 1/00

Assurity, Lincoln, NE

C++,VB3,vbx,Win 3.1/95/NT 4.0,CVAT,UL,MEC,FLMI,Access

Lead role adding multiple plans, persitency bonus and CVAT
Model regulations implemented as changes to Cybetek's SalesPro

Application Engineer

3/97 thru 3/98

Information Technology, Lincoln, NE

Windows 3.x,Win95/NT,VB 3/4,OLE,MDI,N tier

Implemented windows interface features in a home banking system

Control Systems Engineer

7/94 thru 2/97

Huffman Engineering, Lincoln, NE

PLC,Clipper,DOS,AC Drives,RS-232,feedback systems

DOS interfaces, PLC programming, schematic creation and onsite startup