402.304.2485

Seeking

Design, implement and fine-tune leading edge web applications Develop contexts and integrations for LLM models Realtime data application development Javascript, Typescript, Node, CSS (learning Python)

Education

Rose-Hulman Computer Engineering BS 1992 - 1995 **Nebraska Wesleyan** Computer Science, Physics 1991 - 1992

Contract Software Developer (2010 - Present)

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 protoype in Vanilla JS. 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.

Web Application / Firebase Developer / 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.

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.

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.

Employee Engagement Software - with Charity focus

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.

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.

Self Funded and Community Projects (1998 - Present)

unacog.com - Created a technical overview for a real-time datastore used for multi-user Al chat—primarily for secondary educators who want to add Al experiences to their courses. Technical overview available at.

https://unacog.com/content/overview/ has a strong overview

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. https://handtop.com/doc has a strong overview

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.

https://locate.beer/overview/ has a strong overview

Shared Game Lobby - Open source realtime game lobby with a couple card games as an active starting point for Firebase, Firestore, etc project with users, online presence, realtime turn based games, game rooms, authentication, image storage, etc. Scale on demand using cloud functions. Code is available - including deployment instructions etc https://github.com/HuskerSam/sharedgamelobby has a strong overview

- 1/98 8/21 Mobile Product Developer Handtop Lincoln, NE Bootstrapper (1999-2002) - Shareware applications for PalmOS include SuperNote Bootstrapper (2019-2021) - Virtual Reality and webGL development using BabylonJS
- 5/99 4/12 **POS/ICS App Developer Nebraska Book Company** Lincoln, NE Contractor (1999 2004) Symbol Wifi Barcode reader running PalmOS Apps Employee (2009 2010) Inventory, accounting and POS application maintenance

3/98 - 3/14 **UL App Developer**

Assurity

Lincoln, NE

Employee (3/98 - 1/00) - Illustration Developer / Analyst / Lead

Contractor (2/00 - 1/03) - Added and updated UL Products

Contractor (6/13 - 3/14) - Worksite UL Product implementation

6/11 - 2/13 **Web Developer**

Social 27

Seattle, WA

Redesigned booth and products presentation

Designed and implemented guiz and polling system

Assisted design and implementation of gamefication engine

Optimization for page load time on asp.net webforms page generation

5/07 - 6/08 **UL App Developer**

All State

Lincoln, NE

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

8/05 - 4/07 **Programming Manager** **Healthware**

ASIWeb

Lincoln, NE

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

1/04 - 6/05 Windows App Developer

Lincoln, NE

Check imaging, crystal reports integration, multi-threaded ATM transport service Principal team member in agile process automating sprint tracking and unit testing

2/97 - 1/98 Windows App Developer Information Technology Inc Lincoln, NE Implemented windows interface features in a multi tier home banking system

7/94 - 02/97 Control Systems Engineer

Huffman Engineering

Lincoln, NE

DOS interfaces, PLC programming, schematic creation and onsite startup