Justin Meiners

software engineer

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I combine strong computer science fundamentals with an ability to make effective design and leadership decisions. I have a history of bringing projects from start to finish, in collaboration with customers. I believe planning is essential to creating great software.

- Skills -

subjects: computer graphics, 3D math, Linux systems, databases, numerical methods, generic programming

primary tools: C, C++, JavaScript, Common Lisp, Swift, Bash, STL, Git, make, Node.js, OpenGL, WebGL, GLSL, HTML5 canvas, SQLite, Sphinx

additional tools: C#, Java, Python, Objective-C, TypeScript, Haskell (even professionally!), PostgreSQL, Docker, Cocoa, Unity3D, ARKit, Android, Django, Motif, V8, SQL, gnuplot, HTML, CSS

- Experience -

AR/VR Software Engineer - Apple

March 2021 - Current

Technology Development Group (TDG) working on system applications.

Software Engineer - PassiveLogic

March 2021 - Nov 2022

Mobile team lead. Invented software for scanning buildings in AR and automatically extracting floor plans from 3D models (5 patents pending). Extensive work in mesh processing, computer vision, and numerical methods. Optimized algorithms for Apple platforms using frameworks such as Accelerate, LAPACK, simd, Metal.

Software Engineer (Contract) - Independent

July 2019 - March 2021

Helped other development teams overcome challenging technical problems. Updated a legacy WebGL application to use modern rendering techniques (Zygote Media). Created iOS and Android apps to talk with custom bluetooth hardware (Brower Timing). Wrote an equipment rental website and search engine in Django (Enigma3). Designed a system that watches sporting events and asks viewers engagement questions (Opine).

Software Engineer/Engineering Manager - Pyrofex Corporation May 2018 - July 2019 Developed large-scale linux web applications with a team of internet and cryptography experts. Mix of management and development work on several projects including: an aggregator of cryptocurrency market data, a distributed IDE for writing smart contracts, and an alternative JavaScript runtime emphasizing security.

VR Developer - Heizenrader

Sep 2016 - May 2018

Created virtual reality simulations of medical surgeries for Vive, HoloLens, etc). Focused especially on problems involving shaders and 3D math. Significant involvement in project planning and sales.

Mobile and Web Developer - Various

Feb 2009 - Sep 2016

I held various development positions with small businesses and local government, alternating between parttime and full-time throughout the school year. This experience is where I learned to develop software professionally. Highlight: Personally programmed more than 25 iOS apps for medical device manufacturers, including Fortune 500 companies.

- Education -

M.S Mathematics - Brigham Young University

2019-2021

GPA: 4.0. Studied 3D space (and higher dimensions) including geometry and topology. Thesis: *Computing the Rank of Braids*.

B.S Mathematics - Utah Valley University

2015-2018

GPA: 3.88. Minor: Philosophy.