SIMON WALKER

CONTACT

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EDUCATION

A.S. in Computer Science
Front Range Community College, CO
(May 2022)

A.S. - General
Front Range Community College, CO
(May 2022)

Colorado Early Colleges - GPA 4.5
Summa Cum Laude with High Honors
(May 2022)

University of Colorado Boulder
(Expected Fall 2024)

SKILLS

Languages
JavaScript, TypeScript, C#, C++, C, Python,
Java, Kotlin, Asm x86, Dart (with Flutter),
Bash, HTML5, CSS, SASS, SQL

Frameworks and Platforms
AWS (EC2 and small cloud architectures),
ReactJS, NextJS, Svelte, SvelteKit, Flutter,
.NET Core, NodeJS, ExpressJS,
Unity3D, ThreeJS (WebGL), MaterialUI,
TailwindCSS, Docker

Developer Tools
Git, RegEx, Gradle, Maven, Automated testing
frameworks (Jest, NUnit, JUnit…), JetBrains
IDEs, VSCode, UI Dev Tools, Linux

Graphics Design Tools
Affinity Photo, Affinity Designer, Blender
(3D Rendering & Modelling)

SOFTWARE PROJECTS

Developed dozens of projects outside of school over the past five years to learn and adopt new technology.

TopoMath - GitHub Repo   2021
- Designed and implemented a website for use in the classroom for a calculus professor. With only a single mathematical equation, 3D mountains and valleys are generated in real-time. TopoMath aims to connect math to a real-world application in an extremely visual way.
- Based on SvelteKit and TailwindCSS. 3D rendering uses ThreeJS. Generation uses coherent noise. Additionally using MathQuill and MathJS for expression handling.

Discorb - GitHub Repo   2021
- Developed a website from scratch in the style of https://discord.com/.
- Fully responsive on all devices and browsers. Includes all animations and graphics in the style of discord.
- Based on React with NextJS and MaterialUI (CSS).

TexToIL - GitHub Repo   2022
- Implemented a compiler for TeX math expressions in c#. Expressions are parsed into an AST and compiled into lambda functions which can be called with new parameters without recompiling the original expression.

WORK EXPERIENCE

Private Tutor   2020 - present
Private tutoring of C#, Java, OOP, professional JetBrains IDEs, etc. to an Intel employee and high school students.

Freelance Graphic Designer   2016 - present
- Designed and rendered 3D wallpapers, published by Nova Skin. Wallpapers are specially rendered so that included graphics change based on who views them from the website.
- Designed custom professional logos for individual clients.

Lead Technical Advisor   Volunteer, 2020 - 2022
Colorado Early Colleges High School's Computer Programming Club
- Organized and regulated the virtual platform.

AWARDS & CERTIFICATES

- **Hackathon - 3rd place | LambdaTest**   March, 2022
  Built a functional automated testing framework for python with support for test suites.

- **Hackathon - Finalist | BuilderGroop**   March, 2022
  Built an original web app in 30 hours. I worked in a team on the dynamic front-end and logic.

- **Business Specialization Certificate**   2021
  Front Range Community College, CO
- **Programming Certificate**   2021
  Front Range Community College, CO