Samuel Walker

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Profile

Programming enthusiast with experience in Java. Worked on projects in software development. Engages in diverse projects with Raspberry Pi and Arduino, Robotics, 3D-printing, and AI (Deep learning)
Experience with Java, Python, OpenGL, NodeJS, Web frontend and web backend
Developed projects in Java, as a website, desktop application or involving 3D graphics with OpenGL
Github:

Technical Skills

- Programming Languages: Java | Java EE Web | Python | NodeJS | MongoDB | SQL | JS
- Experience in web frontend languages and web frontend site-plan / design
- Additional experience: Keras (python) | Linux | Git

Other

- Built and programmed a robot with software for simulated and real behaviors
- Experience in 3D printing and 3D Cad Design with Fusion360
- Experience with blender, made several small movies and 3d models for video games
- Created Minecraft Java Edition mods in spare time. (https://www.curseforge.com/members/lightning323/projects)

Education

Computer Science (Current)
Brigham Young University - Idaho

Experience

September 2022 - November 2024

Projects

Tessera, Open source Voxel Game
https://github.com/Lightning323/Tessera   September 2022 - December 2024

- Constructed an open-source Minecraft clone with Java; developed 1 complete rendering pipeline and GUI using LWJGL;
- Optimized by leveraging custom tools for managing memory and debugging frames
- Constructed chunk loading algorithm and optimized for game performance and real time generation
- Devised LAN multiplayer functionality using Java sockets

Built a restaurant website for a client   Idaho Falls, Idaho
Bacon and Bleu, Idaho Falls (https://www.baconandbleu.com/)   January 2022 - December 2023

- Designed and coded website for a local restaurant. Frontend was designed and built by hand. Backend coded using Java EE web framework

Built Node.JS Backend for a quest board web application   BYUI
Technical Teamwork, BYUI (https://bravequests-production.up.railway.app/)   December 2025

- Cooperated in a team to construct a web application
- Established database with MongoDB to handle User logins and quest board data

Extra-curriculars

Led a team in the 2025 iHack event at BYUI
https://github.com/Lightning323/MemorizationDungeonCrawler