# Jack Wyatt Jebef

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## GOALS

Recent graduate eager to cut my teeth. Seeking a junior engineering role with a small, focused team. Long hours, interdisciplinary scope, ownership - yes!

## EDUCATION

**University of California, Berkeley**                                                       *Graduated May 2024*
B.S. Electrical Engineering and Computer Sciences

**Santa Barbara City College**                                                              *Transferred August 2021*

## PROJECTS

**Crater - Full Stack Web App**
*Stack: React, TypeScript, Node.js, Express, PostgreSQL, Spotify Web API, Vite*

- Designed and developed a full stack web application that allows users to organize and share music in a graphically playful, album-forward format.
- Implemented OAuth2.0 PKCE authentication flow to securely connect to Spotify's Web API and access user listening data.
- Created interactive frontend components with React to simulate browsing physical vinyls in a record store.
- Built a RESTful API with Express and PostgreSQL to store user data and support social features, allowing users to share "crates" of albums with friends.

**Lone Palm Island - 3D Renderer/Demo in C++**
*Stack: C++, OpenGL, GLSL, GLFW, GLAD, GLM, Assimp, Blender*

- Engineered a 3D graphics application featuring real-time rendering of custom 3D models with GLSL shaders.
- Implemented a programmable rendering pipeline including bespoke vertex, fragment, and geometry shaders to enable dynamic lighting and surface effects.
- Created a realistic water shader that leverages reflection and refraction data captured by independent framebuffers.

## WORK EXPERIENCE

**Boom City Builders - Contractor's Apprentice**
*September 2024 - Current*

- Structural framing, exterior/interior finish carpentry, drywall, door/window installation, demo, handyman services, design consulting, basic landscaping, client engagement, general labor.



*Thank you for viewing my resume, your time and consideration are greatly appreciated!*