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Daniel Binoy

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Skills

Software Development

Proficient:	Python, C++, Java, JavaScript, React.js, Bootstrap, HTML, CSS, jQuery, Processing, p5.js
Familiar:	NodeJS, C#, Selenium, Express, AWS, GTest, Web Crawling, MongoDB, Heroku, Unity3D

Other   Git/Github, Agile, Photoshop, Linux, UI/UX Design, VirtualBox, Arduino, 3D Printing

Projects

Portfolio Website
- Created a responsive personal portfolio website, featuring projects and more about me
- Used React, Bootstrap, HTML, JavaScript, and CSS for dynamic content through custom components
- Features aesthetic interface, light/dark mode, and smooth animations, as improvements from old site

Blog App
- Created full stack blog app where users can read articles, as well as upvote and leave comments
- Hosted on AWS EC2 server with backend written in NodeJS and Express
- Front end written with ReactJS, using MongoDB to store comments and upvotes

UCI Web Search Engine
- Wrote search engine from ground up in Python capable of handling tens of thousands of documents
- Runs under harsh operational constraints with query response time under 300ms
- Incorporates tf-idf, contextual relevance ranking, tokenization, and stop word handling

3D Music Visualizer
- Built bezier-based 3d generative music visualizer using p5.js and webgl
- Generates complex visuals that react to mouse, keyboard, and microphone input

Bubbles Together
- Utilized p5.js to create shared drawing experience with particle effects
- Deployed app using Heroku with NodeJS, Express, and SocketIO for backend