BRIAN RANDALL

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TECHNICAL SKILLS

Languages: Java, Javascript (ES6, Node.js), TypeScript, HTML, CSS, Python, SQL, C
Frameworks: Spring Boot, Maven, Express, Flask, Jinja, React, Mongoose, JSP, OSC, MIDI
Databases: MySQL, MongoDB
Tools: Git, Terminal (unix / zsh shell), Linux, OSX, Postman, AWS, MySQL Workbench, REST API, JSON, Adobe Creative Suite (Photoshop, AfterEffects, Premiere Pro), MAX/MSP

TECHNICAL PROJECTS

Full Stack Developer || *twitter.lite*   [*GitHub*](GitHub) | [*Live Site (AWS)*](Live Site (AWS))
Full stack twitter - style web app using *React, Java, Spring-Boot, REST API, MySQL, AWS (EC2), bcrypt*
- Designed RESTful API to handle data transfer from React to MySQL database utilizing Java Spring Boot
- Deployed on Amazon EC2 Ubuntu cloud server using Nginx for frontend, and cmd line version of MySQL
- Designed CSS layout and made site icons in Adobe Photoshop
- Leveraged bcrypt for password and personal information authentication and validation

Full Stack Developer || *babylon dot com*   [*GitHub*](GitHub)
Full stack eCommerce clone of Amazon using *MongoDB, Express, React, Node.js, Faker API, Stripe API*
- Leveraged Faker API to auto generate thousands of fake products and books
- Utilized Stripe API for cart and checkout
- Designed landing page graphics in Photoshop

Installation Developer || *body language*   [*GitHub*](GitHub)
Fully integrated interactive system to process and send input data using *MAX/MSP, MadMapper, OSC, Ableton Live, Quartz Composer, JavaScript*
- Built network to transfer data via OSC from WiFi Arduino shield to MAX/MSP
- Designed visual elements to be projected onto various physical elements around the space. Utilized Ableton Live for sound design, and Live API to manipulate interface and audio

Developer and Editor || *wild man (music video)*   *VDMX blog* post | *Creators Project* (VICE) feature
Live music video featuring real time projection mapping and sequenced lights built with *MAX/MSP, OSC, Arduino, Ableton, XBox Kinect*, *MadMapper, QuartzComposer, Syphon, DMX, VDMX*
- Created enough momentum for the song that it became a featured track on EA Sports UFC 2 video game
- Utilized IR camera from XBox Kinect to develop a dual-layer real-time video mask to be projected onto subject
- Home built DMX light controller with Arduino and DMX shield programmed to receive serial messages sent from MAX/MSP over USB to synchronize a series of lights
- Amassed over 500,000 views on final project and was featured on VICE's Creators Project

Developer || *brainwave freq dome*   *CalArts installation*
Interactive A/V installation built with *NeuroSky Mindset, QuartzComposer, PureData, DMX, OSC*
- Developed pathway for NeuroSky Mindset to display audio / visual representation of users prevalent brain wave frequencies
- PureData was used to accept incoming messages over bluetooth, and via LAN, OSC messages were sent to a different computer to render visuals in Quartz Composer

PROFESSIONAL EXPERIENCE

Full Stack Engineer || *Tensorpunk*   **2023 -**
- Collaborated with a small team to build TOME, an AI based audio sample production SaaS web app
- Designed backend infrastructure for SaaS model, still in development
- Built CI/CD pipelines using AWS / Github

General Contractor || *Blue Meadow Builders LLC*   **2019 - 2022**
- Designed and implemented plans for remodels, new construction ADUs, on average 2 - 3 a month
- Interfaced with clients and suppliers to negotiate finances and material orders
- Set and met aggressive product deadlines, always within estimated completion date window

Senior Digital Marketing Manager || *Sargent House*   **2017 - 2019**
- Merch, tour poster, album art, cd / vinyl layout, for grammy nominated, Billboard Top 100 bands / artists
- Created digital marketing strategies for print and web, utilizing images, video, motion graphics, ad campaigns resulting in global media attention and increase in fanbase
- Worked directly with our clients to ensure the final product was most representative of their idea

CERTIFICATIONS

Full Stack Development Certificate in Python, Java, and Javascript (MERN) // Coding Dojo   **2022**