

# Daniel Binoy

dbinoy15@gmail.com | (669) 377-5085 | [www.binoy.co](http://www.binoy.co) | 🌙

## 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

## Relevant Projects

### Portfolio Website

[binoy.co](http://binoy.co)

- 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

[github.com/binoy-d/react-blog-app](https://github.com/binoy-d/react-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

[github.com/binoy-d/2p1p-puzzle-game](https://github.com/binoy-d/2p1p-puzzle-game)

- 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**

### 3D Music Visualizer

[binoy-d.github.io/spiral-orbit](https://binoy-d.github.io/spiral-orbit)

- 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

[bubbles-together.herokuapp.com](https://bubbles-together.herokuapp.com)

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

## Education

### University of California, Irvine

BS, Computer Science, 3.7

Expected Graduation: June 2022

## Certifications

### LinkedIn

Python For Automation, React.js, Building a React.js Interface, Python Assessment, Java Assessment

## Experience

### Software Engineering Intern | Badger Meter

Jan 2021 – Present

- Producing **clean, efficient code** based on user stories and integrated software components
- Authoring automated **unit, integration, and system tests**
- Troubleshooting and debugging existing **Python** and **React** code base

### Project Committee Member | UCI ICS Student Council

Nov 2020 – Present

- Working to develop online solutions tailored to aid UCI students to improve student experience
- Rebuilding and redesigning [zotistics](#) website from ground up in React

### Web Development/UX Intern | Curicular

Sep 2020 – Dec 2020

- **Managed website interface**, pitching and implementing ideas to better design, code, and modify the site
- Created visually appealing site features for **user-friendly design** and clear navigation.
- Streamlined website structure and page layouts, resulting in **4x faster load times**

### Computer Science Instructor | KTBYTE

Apr 2020 – Present

- Taught computer science concepts at various levels in **Processing** and **Java** to over **60** pre-college students
- **Communicated** with operations staff on **optimizing** problem sets to emphasize learning and retention
- **Developed** automatically graded curricula and problem sets

### Vice President | MESA Club, STHS

Aug 2017 – May 2019

- Grew MESA(Mathematics Engineering Science Achievement) by **over 40%** from **50+ to 80+ members**
- Lead club to best year to date, winning over **72%** of all prizes, with **90%** of members winning