

# Daniel Binoy

CS student with proven experience in full stack web development

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## Skills

### Software Development

Proficient: Python, React.js, C++, Java, NodeJS, HTML/CSS/JS, MySQL, Bootstrap, Processing, p5.js  
Familiar: C#, Selenium, Express, GraphQL, jQuery, GTest, Web Crawling, MongoDB, Unity3D

### Other

Git/Github, AWS, Agile, UI/UX Design, Heroku, Photoshop, Linux, VirtualBox, Arduino

## Experience

### Software Engineering Intern | *Badger Meter*

Jan 2021 – Present

- Troubleshooted and debugging existing **Python**, **React**, and **CoffeeScript** code base for [Badger Meter](#)
- Authored **ElasticSearch** queries and integrated software components from user feature requests
- Added additional search and sort options, and fixed user account creation issues in **BEACON** product

### Project Committee Member | *UCI ICS Student Council*

Nov 2020 – Present

- Migrated [Zotistics](#) website to **React**, averaging **2.5k users** & **30k page views** per month
- Pitched, designed, and implemented features such as **multi-search** and GET request support
- Currently integrating with [ICSSC PeterPortal Public API](#) and migrating **Express/Node.js** backend to **GraphQL**

### Computer Science Instructor | *KTBYTE*

Apr 2020 – Present

- Taught various computer science concepts for [KTBYTE](#) in **Processing** and **Java** to **100+** students
- **Communicated** with operations staff on **optimizing** problem sets to emphasize learning and retention

### Web Development/UX Intern | *Curicular*

Sep 2020 – Dec 2020

- Managed [Curicular's](#) website interface, pitching and implementing **user-friendly** site features
- Streamlined website structure, resulting in **4x faster load times** and **positive user feedback**

### 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

## Education

### University of California, Irvine

Expected Grad: December 2021

BS, Computer Science, 3.7

## 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 visually consistent interface, light/dark mode, and smooth animations, as improvements from [old site](#)

### Fabflix

[fabflix.xyz](http://fabflix.xyz)

- Full stack movie website featuring **advanced search/filtering** and **payment processing**
- **MySQL** database with custom **Java Servlet REST API** hosted on **AWS EC2 Server** with **Tomcat**
- Clean, responsive **React** frontend integrates with **TMDB API** to fetch movie images
- Supports optimized **SAX XML parsing** of Stanford Movie Database, as well as **password encryption**

### UCI Web Search Engine

[github.com/binoy-d/uci-ics-search-engine](https://github.com/binoy-d/uci-ics-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**

### 3D Music Visualizer

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

- Built bezier-based 3d music visualizer using **p5.js** that reacts 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

## Certifications

### LinkedIn

Python For Automation, React.js, Python Assessment, Java Assessment