

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

BS, Computer Science, 3.7

Expected Grad: December 2021

Relevant Projects

Portfolio Website

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

- 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

- 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

- Built bezier-based 3d music visualizer using **p5.js** that reacts to mouse, keyboard, and microphone input

Bubbles Together

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