

Daniel Binoy

CS student with experience in full stack web development
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Skills

Software Development

Proficient: Python, React.js, JavaScript, HTML/CSS, Java, C, C++, SQL, Elastic, Cloudwatch, Processing
Familiar: NodeJS, C#, Selenium, Express, GraphQL, jQuery, GTest, Web Crawling, MongoDB, Unity, Bash
Other Git/Github, AWS Lambda, Docker, Agile, Linux, UI/UX Design, Virtual Machines, Microcontrollers

Experience

Software Engineering Intern | Badger Meter

Jan 2021 – Sep 2021

- Debugged and refactored **Python**, **React**, and **CoffeeScript** code base for [Badger Meter](#)
- Authored **ElasticSearch** queries and integrated software components from user feature requests
- Handled large scale project migrating logging system from **AWS** to **Elastic Cloud** using **Cloudwatch/Lambda**
- Added additional search and sort options, and fixed user account creation issues in [BEACON](#) product

ICSSC Project Lead | UCI ICS Student Council

Nov 2020 – Dec 2021

- Migrated [Zotistics](#) website from **Flask** to **React**, averaging **2.5k users** & **30k page views** per month
- Integrated with [ICSSC PeterPortal Public API](#) and migrated **Express/Node.js** backend to **GraphQL**
- Pitched, designed, and implemented features such as **multi-search** and GET request support
- Started as member, promoted to Project Lead for Zotistics

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**
- Led club to best year to date, winning over **72%** of all prizes, with **90%** of members winning

Education

University of California, Irvine

Sep 2019 – Dec 2021

BS, Computer Science

Relevant Projects

Fabflix

[fabflix.xyz\(offline\)](#)

- 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**

3D Object Reconstruction

[binoy-d.github.io/object-reconstruction](#)

- Processed structured light scanning data to create accurate 3D reconstruction with **python** and **numpy**
- Handled camera calibration, Delaunay triangulation, mesh smoothing, Poisson reconstruction
- Used **Meshlab** to assemble partial 3d point clouds and **Blender** for post processing

UCI Web Search Engine

[Private Github\(email for access\)](#)

- 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**
- Consists of web crawler, indexer, database, and command line interface

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](#)

Certifications

LinkedIn

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