Aidan Barbieux

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San Luis Obispo, CA

</> github.com/abarbieu

Programs

barbieux.dev

Java

SQL

CSS

C

Python

ReactJS

NodeJS

HTML 5

VSCode

Git, Github

Unix, WSL

Adobe Suite

PostgreSQL

Ceramics

Photography

Leadership

Writing

Juggling

French

Digital Ocean

Other

Jira

Education

California Polytechnic State University - San Luis Obispo

BS: Computer Science, 3.58 GPA

Software Engineering:
Algorithms:
CSC 307 - Juggling Club:
Outreach
Road Racing

Computer Engineering:
CPE 225, 315, 357
Unicycling Club:
Vice President

- Computer Science: CSC 203, 348, 430 - Ceramics: Crafter & Instructor

Languages Experience

IFixit Ad Server September 2020 – Present

<u>Team Lead</u> – San Luis Obispo, CA

- Lead and mentors a team of four students in developing a three-tiered web program
- Develop a backend REST API using NodeJS/Express, and a frontend ad displayer and creator using ReactJS
- Manage virtual meetings and plans development sprints using Jira, all within a SCRUM framework

Corporate and Academic Hackathon

September 2018

<u>Awardee</u> - Santa Barbara, CA ~2.5k LOC Project

- Led an active group in a 12hr hackathon and subsequent project
- Developed a biometric password system identifying users with ~80% accuracy based on typing patterns
- Managed a Java front and back end utilizing the Processing API and Git/GitHub
- Awarded for the best use of data and algorithms by corporate sponsors and mentors

UCSB IGERT Network Science

Summer 2017

Research Intern - Santa Barbara, CA ~2k LOC Project

- Studied general network science and graph theory under by two Computer Science PhD students
- Visualized data from Kaggle of over 1,500 plane crashes with cluster graphs via Python in Jupyter Notebook
- Worked full time for six weeks heading my three-person team, using Git/GitHub for program management

Non-Technical Work

VeloPro Cyclery

Summer 2019 - Present

Sales Associate - Santa Barbara, CA

- Service and sell bicycles; generated a total profit of over \$45,000 for the holiday season
- Resolve customer service issues including warranty claims and special orders
- Train new employees and customers in bike service and maintenance

Unicycling and Juggling Club

December 2018-Present

<u>Vice President</u> - San Luis Obispo, CA

- Reserve spaces and organize events around San Luis Obispo to teach and practice
- Recruit and motivate new members to be active in the juggling and unicycling community
- Practice and perform routines with groups of 3-10 people for parades and events such as TedX

Projects

Portfolio and Personal Website

June 2020-Present

ReactJS - barbieux.dev ~6K LOC Project

- Display a mobile friendly web interface via ReactJS and Bootstrap, organizing information about and for me
- Host a REST API via NodeJS, Express, PostgreSQL, and NGINX to manage and send emails and notes
- Dynamically generate menus, image galleries, and other content from JSON files and directories

GPX 3D Visualizer and Fractal Explorer

June 2019-January 2020

<u>Java</u> - <u>github/Mandelbrot</u> - <u>github/gpxVis</u> ~2K LOC Project

- Utilized OpenGL and the Processing API to display cycling race and event routes
- Implemented and optimized a generator and renderer for Fractals using the **Processing API** and **ImageMagick**
- Designed user controls to generate and interact with both projects in real time