

JACOB SOMMER

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EDUCATION

University of California, Irvine

B.S. Computer Science

September 2021 - Present

Irvine, CA

- 3.85 GPA
- Expected Graduation: December 2024
- Relevant Coursework: Data Structures, Algorithms, Computer Organization, Machine Learning & Data-Mining, Information Retrieval

PROJECTS

PeterPortal · *Express, React, TypeScript*

- Collaborated with a team of 10 peers on the Information & Computer Sciences Student Council to develop and maintain an application for students at University of California, Irvine to research classes and create their 4-year plans.
- Worked on new features, bug fixes/troubleshooting, and maintenance tasks in 2-week sprints.

PlayPic · *Express, React*

- Collaborated with three teammates to create a website that takes an image and creates a Spotify playlist with a matching tone for the 36-hour HackUCI 2022 hackathon.
- Wrote an algorithm to compute the mood of an image from the warmth/coolness and saturation of the colors in the image.
- Interacted with Spotify's REST API to create a playlist of recommended songs matching the computed mood of the image.

Hangman · *TypeScript, React, Socket.IO*

- Designed and developed an online multiplayer, browser-based game of Hangman.
- Implemented frontend with React and networking with Socket.IO.

StarTracker · *Python*

- Programmed, designed, and built an equatorial mount from scratch with common hardware store materials, a stepper motor, and a Raspberry Pi.
- Counters the Earth's rotation, allowing a camera to track and photograph nebulae, galaxies, and other deep sky objects through long exposures.

WORK EXPERIENCE

Regal Hacienda Crossings, IMAX, ScreenX & RPX

Floor Staff

July 2021 – September 2022

Dublin, CA

- Operated point of sale systems, helped customers, prepared/served foods and refreshments, cleaned auditoriums, assisted customers with ticket purchases at kiosks, performed closing duties at concessions.

SKILLS

Languages: Java, JavaScript, TypeScript, Python, C++

Technologies/Frameworks: Node.js, Express, React, Flask, Firebase, Git