Justin Thomasson

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STATEMENT

Detail-oriented Software Engineer with hands-on experience building full-stack applications using React, Next.js, and Python. Passionate about creating efficient solutions through clean code, performance optimization, and intuitive user experiences. Combines technical skills with strong problem-solving abilities honed in AV tech and customer-facing roles. Eager to contribute to a collaborative engineering team.

SELECT TECHNICAL SKILLS

Languages: Python, Javascript/Typescript, SQL
Frameworks/Tools: React, Next.js, Flask, Git, PostgreSQL, Vercel, Pygame, Wordpress, Sanity

TECHNICAL PROJECTS

RYL: Landlord Rating website– *A web app track and rate landlords* Github
Designed and Developed a full stack web app to rate and evaluate Landlords.
- Utilized **React** for the frontend, **Flask** for the backend, and **SQLAlchemy** for database management.
- Optimized SQL queries, cutting backend response time.
- Integrated OpenAIs API to create a legal assistant chat bot, reducing research time for users.

Moodeng's Wicked Adventure– *An RPG game built with Python and Pygame* Github
Developed a role-playing game (RPG) with a focus on creating a dynamic and bug free game loop.
- Engineered a dynamic event-driven game loop in Pygame using pygame.Clock() for consistent 60 FPS, sprite groups for collision detection, and finite state machines (FSMs) to manage character states.
- Designed a resource management system using **object-oriented programming (OOP)**, where player abilities consumed 'mana' tracked via a class property, regenerated over time using delta-time calculations to ensure frame-rate independence.
- Optimized rendering performance by implementing **surface.convert()** for faster blitting.

Flatiron Support Troupe– *A React-based website to support coding bootcamp cohorts* Github | APP
Created a supportive and interactive platform for users to manage stress and emotions during a coding bootcamp.
- Integrated APIs (Spotify, Weather, and Breathework) to provide personalized support based on user input.
- Designed a calming, user-friendly interface with CSS and React Router for seamless navigation.
- Acted as Project manager, lead cross-functional team members and fostered collaboration.

PROFESSIONAL EXPERIENCE

Freelance Software Engineer *New York City*   *2024-Present*
- Developed client websites with **Next.js** and TypeScript, improving load times by 40% via SSR.
- Migrated legacy React SPAs to Next.js for better SEO and maintainability.

AV Technician/ Event Production Assistant *Scandinavia House, NY*   *2022-Present*
- Troubleshot and repaired AV systems, ensuring seamless setup for events, reducing system downtimes by 30%.
- Established positive relationships with clients, ensuring expectations were met or surpassed.
- Trained colleagues on troubleshooting protocols and system maintenance, improving team productivity.

Customer Service Specialist *Bathhouse, NY*   *2020-2023*
- Used Zendesk, Shopify, and APIs to streamline customer support, reducing resolution time by 20%.
- Developed and maintained documentation for customer service workflows, creating reusable macros for team-wide efficiency gains.
- Leveraged data-driven insights from customer interactions to identify trends and propose improvements to the customer experience.

EDUCATION

Flatiron School   New York City, NY
Full Stack Web Development, Python, Flask, JavaScript, React, and SQL.

Humboldt State University   Arcata, Ca
Coursework in Engineering and Appropriate Technologies