JOSE IGNACIO PATINO

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Education

University of California, Santa Cruz   **Sept 2022 – June 2024**
Bachelor of Science in Computer Science   *Santa Cruz, CA*

Relevant Coursework

- Data Structures
- Analysis of Algorithms
- Embedded Systems
- Computer Architecture
- Agile Methodology
- Distributed Systems
- Web Development
- Software Design

Experience

Blueprint UCSC Chapter   **Oct 2023 – Present**
Senior Software Developer   *Santa Cruz, CA*

- Developed an online assessment dashboard for the nonprofit, YFIOB, to assist students in finding career and learning opportunities in their area
- Utilized React to create an interactive questionnaire and Firebase in the back-end to store student progress, results, and account information
- Ensured platform is accessible to all users by adhering to ADA and WCAG guidelines, including screen reader support and intuitive keyboard navigation
- Provided mentorship to novice web developers by leading JavaScript workshops, and offering consultation and guidance to teams encountering challenges, thereby fostering professional growth and facilitating project success
- Conducted weekly meetings with the project sponsor to examine avenues for enhancing the application, encompassing aspects such as UI animations and the expansion of career opportunities beyond the local county

UCSC Police Department   **Jan 2024 – Present**
Software Developer   *Santa Cruz, CA*

- Developed a comprehensive crime visualization dashboard, using React and Django, aimed at supporting campus law enforcement in monitoring trends and formulating intervention strategies
- Engaged in weekly communication sessions with the Chief of Police to discuss app specifications and address any concerns, aiming to facilitate the seamless development of a successful product
- Served as Scrum Master by ensuring scrum board was updated daily and team adhered to CI/CD principles by committing and pushing reliable and reviewed code to repository frequently

Projects

SOMOS Home Website | *React, Nestjs, SQL, Git* | ⬛   **Jan 2024 - Present**

- Engineered a website for the tech association, SOMOS, that promotes local networking events, cultivating a community of technology enthusiasts and professionals
- Improved user accessibility by utilizing the Radix component library, recognizing the needs of around 12% of total users
- Developed and optimized database schemas in PostgreSQL to efficiently store and manage website data

Beatbox Drum Sequencer | *HTML, CSS, JavaScript* | ⬛ | 🔗   **July 2023**

- Created a fully functional drum sequencer, allowing users to create, upload, and export music samples, thereby enhancing music production efficiency by 30%
- Made use of Recorderjs plugin to allow users to record and download their creation as a .wav file, enabling seamless integration with their primary digital audio workstation for external song production purposes
- Designed key features enabling users to save and restore their composition and manipulate audio output via an intuitive panning knob interface

Multi-Threaded HTTP Server | *C, Linux Virtual Machine, Web Sockets* | ⬛   **April 2023**

- Implemented server that handles multiple client requests simultaneously, while maintaining a coherent and correct ordering
- Achieved process atomicity by utilizing synchronization primitives to ensure responses conform to a consistent sequence of requests
- Made use of the C Socket library to create the connection between the client and server in order to send bytes of data over a network

Technical Skills

Languages: Python, JavaScript, C, Bash, HTML/CSS, SQL
Spoken Languages: Spanish, English
Developer Tools: Docker, Neovim, VS Code, Git
Technologies/Frameworks: React, Express, Nestjs, Linux, GitHub, PostgreSQL, Firebase, MongoDB