# NICOLAS BORROMEO

## SOFTWARE ENGINEER

nicoborrrom@gmail.com | 323-283-7085 • [LinkedIn](#) • [Github](#) • [Portfolio](#) • Los Angeles, CA

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Full-stack developer with over a decade of creative and technical expertise, transitioning into tech after excelling in high-profile music production and audio engineering roles. Skilled in React, Flask, Sequelize, Express, and SQLAlchemy. Designed and delivered impactful software solutions, including a custom web application that helped a company significantly reduce operational costs while successfully expanding its business. Known for creative problem-solving, and adaptability, with a proven ability to deliver results in high-pressure environments.

**TECHNICAL SKILLS** • JavaScript • Python • SQL •React • Redux • Jinja • Flask • Express• RESTful APIs • Sequelize • SQLAlchemy • AWS • PostgreSQL • SQLite • Node.js • Postman • Docker • Git •

**RELEVANT SKILLS** • Collaboration • Process Optimization • Client-Focused Solutions • Data Management • Technical Problem-Solving •

## EXPERIENCE

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### Software Developer & Database Manager • *TH Flooring* • Argentina          05/2024 – **Present**
- Developed a bespoke full-stack web application for TH Flooring's sales team, initially built with vanilla JavaScript and HTML and later refactored to React for improved scalability and maintainability.
- Achieved cost savings of $5,000 annually by replacing a subscription-based solution, enabling the company to reinvest in operations, branch out from its parent organization, and expand its product offerings.
- Collaborated closely with clients to gather feedback, rolling out custom features and resolving bugs to meet their evolving needs, ensuring continued satisfaction and improving the overall usability of the application.
- Delivered an intuitive UI with enhanced search functionality that resulted in streamlined operations, reducing manual errors, and improving team efficiency.

### Audio Production Engineer & Composer • *Freelance* • Los Angeles, CA          10/2017 – **Present**
- Delivered end-to-end musical compositions and audio engineering solutions for high-profile clients, including Hans Zimmer's Bleeding Fingers and award-winning films.
- Optimized recording studios and digital workstations workflows to enhance efficiency, meeting tight deadlines in fast-paced, high-stakes environments, showcasing exceptional project management skills.
- Applied advanced problem-solving to complex audio systems, showcasing transferable skills in debugging and workflow optimization.
- Collaborated with cross-functional teams, including composers, engineers, and directors, ensuring seamless communication and successful project delivery.

### Recording Engineer & Technical Coordinator • *Tree Adams* • Hollywood, CA          10/2021 – 08/2023
- Optimized Pro Tools mixing sessions, cutting TV show mixing time by over 50%, reducing it from 2–3 days to less than one day by pre-configuring essential tools and workflows, demonstrating expertise in process automation.
- Spearheaded the organization and quality assurance of a catalog containing thousands of songs, ensuring accuracy and consistency through meticulous metadata management, and showcasing strong quality assurance and data management skills.
- Directed recording sessions for live ensembles, ensuring seamless integration of recordings into final scores for network TV productions.
- Enhanced team productivity by automating repetitive tasks and establishing clear documentation for studio processes.

### Composer Assistant & Recording Engineer • *Gustavo Santaolalla* • Echo Park, CA          01/2019 – 10/2021
- Contributed to the soundtracks of high-profile projects such as Spielberg's *Finch* by managing recording and mixing sessions with meticulous attention to detail, ensuring precision under pressure.
- Improved production workflows by implementing efficient session-stemming processes, reducing delivery times by 25%.
- Delivered polished audio stems and stereo mixes for projects, ensuring high-quality production outputs.

# PROJECTS

### ScoreSync: A Collaborative Platform for Musicians  | [Github](#) | [Live](#)          *React • Redux • Express • Sequelize*

- Architected and maintained database schemas using **PostgreSQL** for production, leveraging its robust ACID compliance to ensure data integrity and scalability, while employing **SQLite3** for its lightweight, file-based storage approach in development, resulting in faster development of prototypes and testing workflows.
- Established an efficient backend route system using **Express**, ensuring seamless database integration, optimized HTTP request handling, and streamlined RESTful API development.
- Leveraged **AWS S3**, for its low-latency and high availability to optimize upload and retrieval of audio files, improving the user experience for audio professionals by ensuring faster access to files, secure data storage and scalability to handle growing libraries.
- Engineered tracklist reordering functionality using **React's drag-and-drop libraries** and **integrated 3rd party APIs**, including **tinycolor2**, and **WaveSurfer.js** for waveform visualization, improving the user experience with intuitive track management and real-time audio interaction.

### KANA (Group Project)  | [Github](#) | [Live](#)          *Python • Flask-SQLAlchemy • React • Redux*

- Designed a **reusable** TaskEditModal **component** in **React** that dynamically renders forms and functionality for different task types (Daily, Todo, Habit). This improved scalability by centralizing CRUD operations for multiple tasks and simplifying the process of adding new features or task types.
- Spearheaded the construction of an advanced relational database schema using **Flask-SQLAlchemy models** and **Alembic migrations**, optimizing the querying of complex user-related relationships,. By implementing efficient join operations and eager loading, I streamlined data retrieval in a single optimized query, simplifying state management, reducing redundant queries, and enhancing the handling of user data.
- Configured database models through **Python classes** to simplify default information and properties across several tables. By leveraging **class variables**, I eliminated the need to seed repeated default data (e.g. default tags), ensuring only user-specific selections or new entries are stored in the database.  This approach simplified table management, optimized data storage, and improved scalability for future development.
- Supported the development of a **shared codebase** by ensuring smooth integration of **feature branches** using **Git**, minimizing merge conflicts across a distributed team.

### Airbnb Clone: Property Booking Platform  | [Github](#) | [Live](#)          *React • Redux • Express • Sequelize*

- Utilized legacy **Redux** and **Modern Redux Toolkit** to centralize state management, ensuring consistent and predictable application behavior and optimized data flow by reducing backend API calls.
- Built a modern and intuitive UI utilizing **wireframes, custom style sheets,** and modern **CSS** best practices.
- Implemented custom user authentication utilizing **BCrypt Hashing Function** on the backend and **React Auth Routes** on the frontend to prevent storage of plain text passwords and restrict access to user-specific data and features.

# EDUCATION

**APP ACADEMY** • Full Stack Web Development • *Remote*                                                                                    **11/2022**

**BERKLEE COLLEGE OF MUSIC** • Orchestration, Advanced Mixing & Mastering • *Boston, MA*                    **06/2021**

**UNIVERSITY OF SCIENCE & BUSINESS (UCES)** • Bachelor of Science in Marketing • *Argentina*          **12/2011**