

Joel Daniel Rico

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CAREER OBJECTIVE

Aspiring Software Engineer with a passion for problem-solving and solution-based programming. Strong work ethic with proficiency in communication in team-based environments.

EDUCATION

California State University, Fullerton
Bachelor of Science in Computer Science

Fullerton, CA
Aug. 2023 – Dec. 2025

PROJECTS

- JPass** | *Python, Flask, Postgres, JavaScript, Vercel* Feb. 2023 – Present
- Developed a password manager for securely storing user passwords with **bcrypt**, a password-hashing function
 - Implemented login and signup flow with OpenID and OAuth support for Google and Email authentication
 - Created accessible, mobile-friendly web user interface
 - Built with Python and Flask framework, with a relational database for storing encrypted user passwords
- keyphrases.rs** | *Rust* March 2023 – Present
- Developed an open-source library for efficient and accurate extraction of keywords from large volumes of text
 - Implemented Rapid Automatic Keyword Extraction (RAKE) algorithm
 - Designed the library to be flexible, customizable, and scalable, allowing users to adjust the library's parameters and configurations to fit their needs
 - Optimized the library's performance and memory usage to ensure efficient processing of large volumes of text data
 - Contributed to the open-source community by sharing the library's source code and documentation on GitHub and crates.io
- Trends Analysis** | *Python, KeyBERT* Jan. 2022 – Present
- Conducted data analysis on a Discord server with over 1,000 members to identify trends and patterns in user behavior
 - Identified key trends and patterns in user activity, including peak hours of usage, most popular channels, and frequently used words and phrases
 - Utilized a Bidirectional Encoder Representations from Transformers (BERT) model library to extract relevant keywords from discord messages
 - Extracted relevant data using Discord API and web scraping techniques to collect information on user activity, message content, and channel usage
 - Visualized data using charts, graphs, and other visualization tools to highlight trends and patterns in user behavior
- Genius API Wrapper** | *Python, Requests, Web Scraping* Dec. 2022 – Jan. 2023
- Developed a Python-based Genius API wrapper to facilitate access to the Genius lyrics database, enabling users to search for and retrieve lyrics and other song-related data
 - Published on Python Package Index (PyPI), resulting in over 5,000 downloads and numerous positive reviews and feedback from users
 - Utilized Requests HTTP library to communicate with Genius REST API
 - Tested and validated accuracy and effectiveness in retrieving relevant and up-to-date song data, including lyrics, album art, artist information, and song metadata
 - Implemented the API wrapper to provide a range of functionality, including searching for song lyrics, retrieving song metadata, and accessing song annotations and explanations

TECHNICAL SKILLS

Languages: Rust, Python, Java, C++, JavaScript, HTML, CSS, SQL (Postgres, SQLite)
Tools: Git, Docker, Flask, FastAPI, L^AT_EX

EXTRACURRICULAR

- Association For Computing Machinery (ACM)** | *Member, Contributor* Aug. 2022 – Present
- Co-organized a hackathon event, attracting over 150 applicants and 9 sponsors
 - Developed various open-source tools used by club members
 - Attended workshops and networked with other members