

# Joel Daniel Rico

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## CAREER OBJECTIVE

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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

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**California State University, Fullerton**

*Bachelor of Science in Computer Science*

Fullerton, CA

Aug. 2023 – Dec. 2025

## EXPERIENCE

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**Supplemental Instructor** | CSU Fullerton

Aug. 2023 – Present

- Facilitated interactive and collaborative sessions to enhance students' comprehension of course material, leading to enhanced academic performance and increased confidence in their abilities.
- Cultivated a supportive and engaging learning environment, fostering student participation and encouraging active discussion, thereby promoting critical thinking and deeper understanding of the subject matter

**Research Assistant** | CSU Fullerton

May 2023 – August 2023

- Attended faculty-led workshops, learning about various machine learning and data science concepts

## PROJECTS

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**Trends Analysis** | *Python, KeyBERT*

Jan. 2022 – Present

- 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

**JPass** | *Python, Flask, Postgres, JavaScript*

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
- Optimized the library's performance and memory usage to ensure efficient processing of large volumes of text data

## TECHNICAL SKILLS

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**Languages:** Rust, Python, Java, C++, JavaScript, TypeScript, HTML, CSS, SQL (Postgres, SQLite)

**Tools:** Git, Docker, Flask, FastAPI, Svelte, SvelteKit, Tailwind CSS

## EXTRACURRICULAR

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**Association For Computing Machinery (ACM)** | *Member, Contributor*

Aug. 2022 – Present

- Co-organized a hackathon event, attracting over 150 applicants and 9 sponsors
- Collaborated with other club members to write open source software, contributing to the development of software tools and applications that benefited the community

**Offensive Security Society (OSS)** | *Board Member*

May 2023 – Present

- Built automated tooling for alerting members to current internship and job opportunities
- Managed and maintained club facilities, ensuring cleanliness, orderliness, and the availability of necessary supplies and equipment
- Effectively regulated noise levels in the club's designated study area to create a conducive environment for students and minimize disruptions