

# Joel Daniel Rico

[joeldanielrico@csu.fullerton.edu](mailto:joeldanielrico@csu.fullerton.edu) | [linkedin.com/in/joeldanielrico](https://www.linkedin.com/in/joeldanielrico) | [github.com/jjoeldaniel](https://github.com/jjoeldaniel)

## 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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**Production Engineer Fellow** | Major League Hacking

June 2023 – Present

- Completed 12-weeks of structured curriculum-based learning covering core Production Engineering topics, supplemented with events / workshops hosted by industry experts
- Created an open-source personal portfolio website template using Python, Flask, Jinja, MySQL, Nginx, and unittest
- Developed CI/CD deployment pipelines for Flask web servers utilizing Docker, Systemd, and shell scripting
- Set up system and container monitoring, alerting, and visualization using Prometheus and Grafana

**Supplemental Instructor** | CSU Fullerton

Aug. 2023 – Present

- Facilitated interactive and collaborative sessions to enhance students' comprehension of course material, resulting in a 10% average grade increase
- Reinforced computer science fundamentals such as data structures, programming paradigms, and object oriented programming

**Research Assistant** | CSU Fullerton

May 2023 – August 2023

- Co-developed interactive website educating users on the correlation between foodborne illness outbreaks and coastal states
- Used Mapbox to visualize population density and outbreak data
- Attended faculty-led workshops, learning about various machine learning and data science concepts

## PROJECTS

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**Trends Analysis** | *Python, Rust*

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

**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

## TECHNICAL SKILLS

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

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

## EXTRACURRICULAR

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

Aug. 2022 – Present

- Organized and led workshops, educating members on AI use cases, Natural Language Processing (NLP), and data science concepts
- 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