

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

EXPERIENCE

Production Engineer Fellow | Major League Hacking

June 2023 – Present

- Designing an open-source Flask template with Jinja, HTML, CSS, and MySQL to create dynamic portfolio website
- Developed CI/CD deployment pipelines for Flask web servers utilizing Docker, Systemd, and shell scripting
- Mentored by Meta production engineers on topics such as continuous integration and delivery, containerization, and networking

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

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

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

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

EXTRACURRICULAR

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

Offensive Security Society (OSS) | *Board Member*

May 2023 – Present

- Built automated tooling for alerting members to current internship and job opportunities