

# Frank Guglielmo

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## EDUCATION

University of San Francisco (USF), San Francisco, CA

- B.S. in Computer Science
- Minor in Business Analytics

May 2024

## NOTABLE PROJECTS

### Duets.ai Transcription Service

- Forked & modified OpenAI's open source speech-to-text model (Whisper) to accommodate bilingual audio transcription for language tutoring sessions on Zoom
- Dockerized a Django server that manages a pipeline utilizing Zoom webhooks to process & transcribe meeting participant audio
- Developed a CI/CD pipeline to automate peer-reviewed code updates to a live Azure environment

### Web Crawler/ Search Engine: "Googs"

- Designed a custom inverted index data-structure in Java to store the frequency distribution of words in one or more crawled web pages
- Developed a full-stack web-application to crawl web pages & search for keywords within the in-memory index
- Retrieved content from each webpage using a custom multi-threaded web crawler

## WORK EXPERIENCE

Roku, San Jose, CA

Software Engineer Intern, Cloud

May 2023 - August 2023

- Architected & developed a MacOS Daemon in Swift to analyze & report Mac state changes
- Implemented a REST API in Go to allow third party devices to transmit state events to Roku's IoT cloud infrastructure
- Utilized Apache Kafka in the event processing pipeline to guarantee at-least-once delivery of state change events

USF CS Dept., San Francisco, CA

CS "Super" Tutor

February 2022 - Present

- Offered specialized tutoring for both undergraduate and graduate computer science students, covering diverse coursework, assignments, and project inquiries

Software Development Teaching Assistant

August 2023 - Present

- Applied knowledge of data structures & algorithms to guide students in building a web-based search engine using Java

## TECHNICAL SKILLS

- **Programming languages (Sorted by Proficiency):** Java, Python, Swift, Go, C, SQL, HTML, CSS
- **Other tools:** Azure, Docker, Kafka, gRPC, Protobuf, MySQL, MongoDB

## SOFT SKILLS

- Rapid Learner, Adept at Articulating Ideas, Motivated Team Leader, Highly Adaptable, Analytical Mindset

## ABOUT ME

- Lived in Bologna, Italy studying Italian
- Travel hacker (Most recently visited Japan in January 2024)