Frank Guglielmo

(917) 524-4803 frankieg1610@gmail.com
linkedin.com/in/fdguglielmo
frankguglielmo.com

EDUCATION
University of San Francisco (USF), San Francisco, CA
- *B.S. in Computer Science*   *May 2024*
- *Minor in Business Analytics*

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 and learning more about my culture*
- *Travel hacker (Most recently visited Japan in January 2024)*