

# Lava Ghimire

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## EDUCATION

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### University of San Francisco

Bachelor of Science in Computer Science

San Francisco, CA | May 2024

Honors: Cum Laude, Dean's List, Grace Hopper Scholarship, USF Newmark Tuition Scholarship

Relevant Coursework: Software Development in Go, Databases Systems, Operating Systems, Data Structures and Algorithms, Linear Algebra and Probability, C and Systems Programming, Computer Architecture, Discrete Mathematics

## SKILLS

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**Languages:** Go, SQL, C, Python, Java, RISC-V Assembly, HTML

**Tools:** GitHub, VS Code, PostgreSQL

## PROJECTS

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### DuetsAI Web App, *Bubble.io*

Jan. 2024 - May 2024

- Spearheaded the design and development of a web application for DuetsAI, a language learning startup.
- Led the creation of detailed workflows and prioritized user-centric design, integrating clean, intuitive interfaces and dynamic data throughout the development process.
- Assisted backend team to develop custom APIs and integrate data with Azure databases, enhancing the application's functionality and real-time content updates.

### Full-Stack Search Engine & Web Crawler, *Golang*

Aug. 2023 - Dec. 2023

- Developed a full-stack web application for crawling web pages and searching for keywords within an index.
- Created a map of maps data structure tailored to project specifications and applied concurrent programming techniques to enhance software performance.
- Acquired proficiency in Go, SQL custom data structure development and web development skills in front-end technologies such as HTML, CSS, and HTTP web hosting.

### Movie Database Management System, *SQL and Python*

Jan. 2023 - May 2023

- Designed and deployed a relational database managing over 65 thousand data points across three datasets: movies, ratings, and tags.
- Developed Python scripts to clean and extract data from text files, ensuring data consistency and usability.
- Engineered and optimized indexes to enhance query performance and data retrieval efficiency; crafted and executed complex SQL queries to generate insightful reports and support data-driven decision-making.
- Created thorough documentation for database schema, testing procedures, and scripting processes to facilitate future maintenance and scalability.

## LEADERSHIP EXPERIENCE

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### Tech Prep Lead, *Women in Technology*

San Francisco, CA | Feb. 2023 – May 2024

- Planned and led 3 technical workshops for the CS department at USF, focusing on Hackathon readiness, covering Web App Development & Deployment, and LeetCode practice sessions.

### Residential Advisor, *USF Student Housing*

San Francisco, CA | Aug. 2023 – May 2024

- Served as a student resource, providing mentorship to 25+ residents and responding to emergency situations including psychological, physical, maintenance, and natural/environmental crises.
- Promoted student and community development with residents through social and educational programming by creating monthly social programs.

### Vice President of Public Relations, *USFCA Panhellenic Council*

San Francisco, CA | Jan. 2022 – Jan. 2023

- Brainstormed and actualized creative social media content to encourage and increase recruitment while ensuring the association's values are portrayed positively at both the local and national level.
- Directed and planned all public events such as tabling events, info nights and fundraising.