

# Sam Goodwin

## Details

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<http://github.com/goodwin-sam>

## Profile

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Recent Computer Science graduate with experience in a range of languages (Golang, Python, Java, C++) and domains (GUI/CLI development, data processing/visualization, computer vision, API integration, databases).

Experience with software tools like OpenCV, TensorFlow, Fyne, and SQLite, along with hardware platforms such as Raspberry Pi, GoPiGo robotics, Arduino, and DJI Tello Drones.

Seeking a software engineering role to apply strong problem-solving skills and a passion for clean, well documented code.

## Education

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### Bachelor of Science in Computer Science

#### Bridgewater State University, 2025

- Magna Cum Laude (GPA: 3.8)
- Dean's List (All Semesters)

## Skills

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**Languages:** Golang, Python, Java, C++, Bash/Shell

**Databases:** SQLite

**Libraries/Framework:** OpenCV, DJI Tello, Excelize, SQLite3, Fyne, JavaFX, TensorFlow

**Tools:** Git, GitHub, Arduino, Docker, Raspberry Pi, VS Code, JetBrains tools

**Operating Systems:** Linux and Windows

**Other:** GUI/CLI development, Computer vision, Data Visualization and Mapping, IoT Systems, API integration

## Projects

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### Job Visualizer

GitHub: <https://github.com/goodwin-sam/job-visualizer>

- Cross-platform Go desktop application, with ability to run via GUI or CLI, for importing, processing, and visualizing a set of job data from Excel files. Provides processed details to view in GUI window (or command line) and a SQLite database.
- Implemented interactive GUI with Fyne for file selection, filtering (keywords, location, salary, remote), and visualization of post-processing job data displaying job details and browser-based mapping of geocoded locations with OpenStreetMap Nominatim API.
- Integrated technologies like Excelize for Excel handling, automatic geocoding with local caching, portable builds (Linux AppImage and Windows executable), and SQLite for data storage.
- Maintained clean code through modular package structure (cmd/pkg separation), consistent naming/formatting, conventional commits, comprehensive testing, and detailed documentation in code and README.

### Concurrent File Processor

GitHub: <https://github.com/goodwin-sam/concurrent-file-processor>

- Cross-platform Java desktop application for concurrent analysis of multiple text files, computing word frequencies, total word, character, and line counts, plus overall file statistics. Supports interactive GUI to select files and view results, and headless CLI modes for batch processing and scripted use.
- Implemented efficient concurrency using custom work-stealing thread pools for load-balanced parallel processing and optimal CPU utilization on large file sets.
- Built modern GUI with JavaFX featuring multi-window interface for file selection, configuration, and result visualization. Created portable executables (Windows ZIP, Linux AppImage) with bundled runtime.
- Designed thread-safe, modular architecture with clear package separation, comprehensive unit tests, and thorough error handling.
- Emphasized clean code practices with clear package separation (processor, gui, runner), descriptive naming, error handling, and thorough README.

## **Experience**

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### **Property Manager**

#### **Private Landlord, Massachusetts**

Summer 2020 – Present

- Managed day to day operations for multiple residential rental properties, responding to landlord directed tenant requests often same day or next day. Including on-call night/weekend work for critical issues such as no heat or no hot water.
- Performed hands on handyman repairs, lawn care, snow removal and general maintenance personally, troubleshooting and/or resolving plumbing, electrical, appliance, and other general issues.
- Collected and processed rental payments while maintaining accurate records and handling administrative tasks.
- Scheduled and oversaw external contractors when needed, ensuring timely completion and quality work.
- Handled documentation, scheduling, and follow-ups, demonstrating strong organization and reliability in a fast paced, high demand environment.

### **Teaching Assistant/Tutor**

#### **Curry College, Milton Massachusetts**

January 2019 – May 2020

- Delivered one-on-one and small-group tutoring sessions for undergraduate students in Chemistry and Biology courses.
- Assisted students in understanding complex scientific material, breaking down problems, explaining experimental processes, and improving critical thinking and problem-solving skills.
- Held regular office hours and review sessions to fix conceptual misunderstandings, review homework/lab reports, and provide constructive feedback to enhance comprehension and academic performance.
- Supported faculty by preparing study materials, facilitating group discussions, and contributing to student success in demanding science curriculum.