

Forrest Walker

LinkedIn: [linkedin.com/in/forrestpatwalker](https://www.linkedin.com/in/forrestpatwalker)

GitHub: github.com/foorast

Portfolio: forrestpatwalker.com

LANGUAGES AND TECHNOLOGIES

- **Proficient:** Python, Java, Junit, Maven, MySQL, PyCharm, Git, Github, Linux, HTML5, CSS3
 - **Exposure:** C, C++, JavaScript, Django, Flask, Spring Boot, NumPy, Pandas, PyGame, PyTest, TensorFlow, PyTorch, Matplotlib, Tkinter, PostgreSQL, AWS, Apache Commons, VS Code
-

EXPERIENCE

Sudoku Game | Software Engineer | [GitHub](#)

2021

Windows program of the Sudoku puzzle game that can generate new boards based on difficulty settings and can solve the board if requested.

- Developed the backtracking algorithm that solves the Sudoku using Python, allowing the client to solve the board and see the correct Sudoku.
- Created the GUI for the game using Python and Pygame, giving the interface for the client to be able to play the game.
- Packaged the script into a distributable using PyInstaller and Inno Setup, allowing the client to download and run the game without requiring all of the tools necessary to create the game.

Stock Quote | Software Engineer | [GitHub](#)

2020

Web application for stock prices allowing the client to look up current prices of a specific stock or their price history.

- Wrote 30+ unit tests for client side and backend components using Junit, resulting in 75% coverage of the codebase.
- Connected the front end to the back end using MySQL, Spring Boot, Java, and JDBC, allowing the client to send HTTP requests and have the frontend update with the proper requested data.
- Converted 10+ old methods to use Generics using Java, resulting in code reusability with different inputs.

NoodleBot | Software Engineer | [GitHub](#)

2020

A social media bot that browses Reddit searching for posts that involve specific keywords, when one is found the bot leaves a response to the post and will continue responding to anyone who responds back.

- Developed the algorithms that the bot relies upon to function using Python, reducing time and space complexity resulting in a faster and more efficient bot.
 - Connected the bot to Reddit's API using Python and the PRAW API wrapper, allowing the bot to properly browse Reddit and respond to posts and direct messages.
 - Configured a AWS server to host the bot and connected using AWS, NPS's Forever package, and PuTTY, resulting in 100% uptime for the bot.
-

EDUCATION

Bachelor of Science, *University of Massachusetts Lowell* | Information Technology - 3.81 GPA

December 2020

LEADERSHIP + AWARDS

Magna Cum Laude, *University of Massachusetts Lowell*

2020