

## GARY HUGHES JR

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### ABOUT ME

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I am a driven software engineer rapidly excelling in a Software Engineering BS program who is passionate about solving complex challenges with innovative technology. With experience in distributed systems, data structures, operating systems, and debugging, I thrive in dynamic, fast-paced environments. I'm eager to bring my technical skills, creativity, and problem-solving mindset to projects that redefine industries and shape the future.

### EDUCATION

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#### WESTERN GOVERNORS UNIVERSITY SOFTWARE ENGINEERING BACHELORS

MILLCREEK, UT  
APR 2024-PRESENT

Recently enrolled in the SEBA program which will be completed in a year due to transfer credits and current experience.

#### SOFTWARE DEVELOPMENT MASTERMIND PROGRAM

DEC 2022 – APRIL 2024

I've recently completed a 15-month immersive mentorship program called the Software Development Mastermind. This program emulates a professional work environment, where the emphasis is on developing real-world projects within tight deadlines. Throughout the process, I received ongoing coaching and feedback that has been instrumental in honing and elevating my programming abilities.

### PROFESSIONAL EXPERIENCE

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#### DABSTRACT

##### LEAD LABORATORY TECHNICIAN

SPOKANE, WA  
MAR 2019 – FEB 2022

- **Designed and implemented Standard Operating Procedures (SOPs)** to optimize lab efficiency, ensure regulatory compliance, and streamline daily operations. Oversee shift operations
- **Led staff training and development** while serving as second-in-command to the Lab Director, fostering a high-performance team and earning multiple team awards.

### PROJECT EXPERIENCE

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#### Twitter Showcase Application

- Developed a full-stack application using React and Flask that displays user-selected Twitter feeds through Twitter API integration
- Implemented responsive UI with Bootstrap, closely mimicking Twitter's interface and user experience
- Deployed application to Render cloud platform with continuous integration
- Technologies used: React, Flask, Twitter API, Bootstrap, Render
- Link: <https://twitter-showcase-2prb.onrender.com/>

#### Real-Time Chat Application (Slack Clone)

- Built a full-stack messaging platform featuring real-time communication using [Socket.IO](#)
- Implemented secure user authentication using JWT (JSON Web Tokens)
- Designed responsive, Slack-inspired interface using React and Bootstrap
- Developed robust backend using Python, Flask, and SQL database
- Technologies used: React, Python, Flask, [Socket.IO](#), JWT, SQL, Bootstrap, Render
- Link: <https://chat-app-2-965z.onrender.com/>

#### Stock Trading Simulator

- Engineered a comprehensive stock trading simulation platform integrating Finnhub API for real-time market data
- Developed scalable backend architecture with Flask and SQL, emphasizing clean code principles and error handling
- Created engaging user interface using React, enhanced with custom DALL-E generated artwork
- Implemented modular design patterns learned through 15-month mentorship program
- Technologies used: React, Flask, SQL, Finnhub API, DALL-E
- Link: <https://fantasy-stock-trader.onrender.com/>

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**Programming languages and Proficiency Levels 1-5:** Javascript-3, React-2, Python-1, SQL-2, HTML5-3, CSS3-3, Node-2  
**Scripting/Environments:** Node.js, venv. **Development Tools:** VScode, Github, Postman, PGAdmin, ElephantSQL, LLMs  
**Frameworks:** React, Bootstrap, Flask, jQuery. **Deployment Platforms:** Render, Netlify. **Technologies:** NPM, Git, RESTful APIs