

# Sabath Rodriguez

(801)644-6119 | [sabathrod@gmail.com](mailto:sabathrod@gmail.com)

LinkedIn: <https://www.linkedin.com/in/sabath-rodriguez> | GitHub: <https://github.com/Sabathrodriguez>

## EDUCATION

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**Salt Lake Community College**, Salt Lake City, Utah GPA: 3.4 January 2018-present  
**The University of Utah**, junior, Salt Lake City, Utah GPA: 2.4 August 2020-present  
*B.S.: Computer Science, Minor in Physics*  
Relevant coursework: *Software Practice I, Software Practice II, Computer Networks, Probability and Statistics, Computer Organization, Algorithms, Programming Languages, Databases*

## SKILLS

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**Programming Languages:** *Java, Python, C++ , C#, SQL*      **Software Tools:** *VMware, VirtualBox, Docker, Jupyter Notebook*  
**Operation Systems:** *Windows, macOS, Linux*  
**Technologies:** *Git*      **Programming Environments:** *Eclipse, PyCharm, IDEA, Atom, Visual Studio Code*

## INTERNSHIP EXPERIENCE

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**Software Engineer Intern** | Healixir Health, Salt Lake City, Utah May 2020 – August 2020

- Used MVC model to help develop Android application.
- Used Java primarily to work on front end logic and design.
- Optimized existing code base for faster and more efficient running times
- Implemented photo insertion/picking tool to work natively within app for better user experience
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## WORK EXPERIENCE

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**Math/Physics Tutor** | Salt Lake Community College January 2022 – Current

- Help other students understand and review material from Math 980-1220
- Encourage other students to achieve independence and success in their academic journey
- Coordinate with peers to help students who might need multiple tutors and different approaches to learning a difficult subject

**Mobile Expert** | T-Mobile November 2014 – November 2021

- Sustain ongoing customer relationships and encourage repeat business by establishing rapport and trust, employing authenticity and adaptability, and creating solutions to best meet customers' needs
- Maintain knowledge of current promotions and sales, payment/exchange policies, and security practices

## PROJECT EXPERIENCE

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**Spreadsheet**      *Coursework Project | Collaborative* January 2021 – May 2021

- Used TCP sockets to send, receive, and update spreadsheet data from remote server running in Docker container.
- Used compression tools to store and retrieve data locally to users' machine.
- Primarily used C++ to develop server.
- Primarily worked on server to accept and handle incoming network requests from hosts and creating independent threads for each one.

**Encrypted Messaging Application**      *Coursework Project | Independent* January 2021-May 2021

- Used public & private key authenticators for messaging encryption and decryption
- Used crypto library to sign, encrypt, and protect the integrity of message.
- Used TCP sockets to connect hosts.
- Used RSA for public key encryption
- Used AES for symmetric key cryptography

**Tank Wars game**      *Coursework Project | Collaborative* August 2020-December 2020

- Programmed client-side interface using C# to receive incoming data from remote server
- Programmed server-side code to send JSON data to clients