

# Shane Webb

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## Education

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### University of Utah – Master of Software Development

*Salt Lake City, Utah Aug 2020 – Dec 2021*

**Curriculum** – Computer Programming, Data Structures & Algorithms, Software Engineering, Hardware Architecture & Operating Systems, Networking and Security, Database Systems & Applications, Data Visualization, Application Systems Design

### University of Utah – Bachelor of Kinesiology

*Salt Lake City, Utah Aug 2016 – Apr 2020*

**Volunteer work** – University of Utah Hospital 2017 -2019: research student and spiritual care; University of Utah Orthopedic Center 2017 -2018: patient needs aid; University of Utah Outreach Program 2017 -2018: group piano teacher

## Work Experience

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### True Adherence, Salt Lake City – Software Engineer Intern

*Salt Lake City, Utah Apr 2021 – Present*

**Typescript/Angular** – Designed and implemented new pages that contribute to the customer experience

**Firebase** – Integrated Firebase functionality into several components of the app

**Algorithms** – Designed and tested exercise algorithms for body tracking using the Azure Kinect Camera that resulted in smoother tracking and expanded the roster of tracked exercises

### Kate's Keys Piano Studio, Salt Lake City – Owner/Operator

*Salt Lake City, Utah 2015 – Present*

**Entrepreneurship** – Founded a piano studio specializing in travel lessons in the Salt Lake City area. Doubled studio size in two years with over 80 students receiving weekly piano lessons, resulting in more than 2X increase in monthly revenue

**Adaptability** – Created a custom piano curriculum from existing methods that improves student growth and tracks progression, resulting in ~10% improvement of the bottom 5% of students

## Software Projects

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**Java** – developed an HTTP server and corresponding chat application that can be run locally, in a browser, or on an Android device

**Data Structures and Algorithms** – developed custom implementations of several data structures and algorithms, including a binary search tree chaining hash table that resulted in ~10% fewer collisions than the linked list chaining hash table

**JavaScript** – made a chat room web app using the WebSocket protocol and an accompanying website that utilizes threads to allow for multiple simultaneous users in the chat room

**React** – made a web app that dynamically creates music worksheets based on user input

## Skills

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JavaScript/Typescript/NodeJS, Java/Kotlin, C/C++, HTML/CSS, Python

React, Flutter, Bootstrap, Angular

MySQL, Docker

## Additional Information

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**Interests:** Fluent in Spanish, avid pickleball player, aspiring watercolorist, and self-proclaimed pizza and burger chef