

# Josh Taylor

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## EXPERIENCE

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### Roblox

Bay Area, CA

Software Engineer Intern

May 2023 - Present

- Batched **DynamoDB** write operations using **Kafka** and **Flink**, saving \$100,000 per month
- Reduced API failure rate by 90% by using **C#** to implement HTTP client retries

### Lucid Software

Salt Lake City, UT

Software Engineer Intern

May 2022 - Aug 2022

- Built ownership transfer features using **Angular** and **Scala** that saved 300 hours of work
- Optimized existing **TypeScript** to reduce webpage load time by 93%

### Brigham Young University

Provo, UT

AI Researcher

Sept 2022 - Present

- Developed an AI that plays social interaction games using **Python**, **Dart**, and **Firestore**.

Software Developer / Linux Systems Admin

Aug 2020 - Aug 2021

- Created distributed systems on **Linux** with **C**, **MySQL**, and **Python** that serves 4000 students

### Juni Learning

Remote

Programming Instructor

Apr 2021 - Apr 2022

- Taught classes on algorithms, data structures, **Java**, **C++**, **JavaScript**, and **Python** to 35 students

## EDUCATION

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### Brigham Young University

Provo, UT

BS Computer Science - **GPA 3.8**

Apr 2020 - (Expected) Dec 2023

- Data structures, algorithms, deep learning, software design, AI, and image processing

## VOLUNTEER

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### BYU Competitive Programming Club President

May 2022 - May 2023

- Increased club attendance by 400%
- Organized weekly meetings and workshops to help members improve their coding skills

## PROJECTS

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Kattis Leaderboard

[kattis-leaderboard.web.app](https://kattis-leaderboard.web.app)

- Created a Competitive Programming leaderboard using **React**, **Firestore**, **Google Cloud**, and **Flask**

Music Generator

[github.com/joshbtay/music-transformer](https://github.com/joshbtay/music-transformer)

- Designed and implemented a deep neural network using **PyTorch** to generate songs

**Languages:** C, C++, C#, Java, Python, JavaScript, TypeScript, HTML, CSS, Scala, SQL, Bash, Dart

**Tools:** React, Angular, Vue, Flink, Node.js, AWS, Firestore, PyTorch, Linux, Git, Agile/Scrum, CI/CD