

# Benjamin Lin

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Location: Bellevue, WA, 98006

## Technical Skills

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Languages	Python, C++, JavaScript, Java, C#, SQL, Easy68k, and MATLAB.
Frameworks	React, Flux, Node.js
Developer Tools	Git, GitHub, npm, Azure Devops, Unity
Databases	MySQL

## Education

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### BS in Computer Science, Mathematics

September 2018–June 2022

University of Washington Bothell

❖ GPA: 3.67

❖ Dean's List: 2018–2021 Annual Dean's List

## Projects

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### Database Design Tool

June 2021 – June 2022

- ❖ Built a web based relational database design tool in JavaScript using React, Node.js, Flux, Material UI, and Konvas
- ❖ Collaborated with the supervising professor to develop features and enhance the model to enable document conversion, user interactions, and syntax enforcement.
- ❖ Identified dozens of functional and nonfunctional features, and completed 37 functional features and countless nonfunctional features..

### Multiplayer Boss Battle

March 2022 – June 2022

- ❖ Created a boss battle multiplayer game in Unity using C# and a low level socket wrapper API to handle UDP and TCP packets.
- ❖ Improved boss battle mechanics through testing user performance and collecting feedback.

### Urban Sound Audio Classification

September 2020 – December 2020

- ❖ Learned and implemented audio preprocessing techniques, machine learning models, and performance evaluation analysis using Python and sci-kit learn.
- ❖ Experimented with various different models and improved performance by 20% switching to boosting.

## Related Course

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|--------------------------------|--------------------------------------|
| • Database Systems             | • Machine Learning                   |
| • Discrete Mathematics         | • 3D graphics                        |
| • Matrix Algebra               | • Hardware and Computer Organization |
| • Data Structures & Algorithms | • Operating Systems                  |
| • Signal Computing             |                                      |

## Relevant Experience

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### Research Assistant, University of Washington Bothell

June 2020 – August 2020

- ❖ Developed web scrapers to collect public data off Instagram using a Python web crawler and formatted into Pandas and .csv files.
- ❖ Collaborated with fellow researchers to coordinate required information and weekly goals of the project.

### Middle School Teaching Assistant, University of Washington Bothell

January 2020 – March 2020

- ❖ Lead a small classroom of students ages 9 to 13 through an interactive programming course in Scratch.
- ❖ Interacted and helped students one on one with questions or issues.