

# Adam Applegate

Software Developer

## 📁 Employment History

### Software Engineer Intern at FamilySearch, Lehi, UT

April 2022 — November 2022

- Managed a critical production web app that handles up to 25M requests/hr, ensuring high uptime and availability
- Increased test coverage by 25%, reducing production bugs and errors
- Improved webservice performance by 10% by debugging and optimizing code
- Designed and implemented numerous data-integrity focused features, improving user satisfaction and data integrity
- Optimized database queries and connections, increasing app speed by 7%

### Student Software Engineer at BYU-I, Rexburg, ID

January 2022 — April 2022

- Designed and implemented features across the full tech stack, from the database to the frontend while ensuring quality, data integrity, and a smooth user experience
- Collaborated with team of 5 using Agile, increasing productivity by 15% and reducing code defects by 25%

### Volunteer Tutor at BYU-I, Rexburg, ID

January 2022 — April 2022

- Tutored students in various programming languages and methodologies
- Taught at the student's level and increased knowledge until they no longer needed tutoring

## ★ Projects

### Machine Learning Web App

- Fullstack app developed with C#, ASP.NET, ML.NET, Angular, and PostgreSQL
- Trained an image classification algorithm to process photos and determine what species of bird is present in an image
- Uses a ASP.NET API backend and an Angular frontend to consume the data
- Hosted app in the cloud and connected many microservices to enhance functionality

### Photo Filtering Software

- Made with Python and the OpenCV, TKinter, and NumPy libraries
- Implemented a robust set of filter algorithms to transform images based on the selected filter

## 🎓 Education

### B.S. Software Engineering, Brigham Young University - Idaho, Rexburg, ID

April 2018 — July 2022

## Details

Colorado, United States

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## Links

[www.linkedin.com/in/adam-applegate](https://www.linkedin.com/in/adam-applegate)

[adamgate.github.io](https://adamgate.github.io)

[www.github.com/adamgate](https://www.github.com/adamgate)

## Skills

C#/.NET

Java

SQL

Linux

REST APIs

Git

Agile / Scrum

Angular/TypeScript

## Hobbies

Bird Watching

Board Games

Gardening

Custom Keyboards