

# Timothy Brown

tabrownies@gmail.com – 801-244-4883 – linkedin.com/in/timothy-a-brown77

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## Education

### BS, Applied & Computational Mathematics Emphasis (ACME)

April 2023

Brigham Young University

Provo, Utah

- Minor: Computer Science
  - GPA: 4.0
  - Academic Full Tuition Scholarship
  - Relevant Coursework: Linear and Nonlinear Analysis, Theory of Analysis, Computation and Optimization, Multivariable Calculus, Ordinary Differential Equations, Mathematical Programming, Statistics, Web Development
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## Skills

- Project/Product Management
  - Team Leadership
  - Curriculum Development and Tutoring
  - Technical Skills:
    - Proficient: Python, C++, JavaScript, HTML/CSS, Node.js, Express.js, Unix Shell
    - Familiar: Figma, Vue, Angular, React Native, Arduino, Raspberry Pi, Terraform, Nginx, MongoDB, Tensorflow, AWS DynamoDB
  - Junior Year Skills: Gradient Descent, Data Structures, Q-Learning, Thompson sampling, Krylov Subspaces, A/B Testing, Singular Value Decomposition, Fourier Analysis, Wavelets, Numerical Linear Algebra
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## Experience

### Project Manager

June 2021– Present

Family History Technology Lab – BYU Computer Science

Provo, Utah

- Lead 17 developers and 8 projects across a variety of technologies, including mobile, backend, web, and data parsing technologies
- Develop a data pipeline which enables thousands of anonymous volunteers to validate 7.5 million handwriting recognition samples.
- Participate in writing a research paper on neural network based named-entity and handwriting recognition for non-English languages (particularly French and Czech)
- Coordinate communication between two on-campus labs to add millions of images to the handwriting recognition validation pipeline and report the validation statistics

### Robotics Instructor

July 2017

Self Employed

Lehi, Utah

- Developed a curriculum to teach 12 youth the basics of robotics
  - Developed a follow-up curriculum per requests of the parents of the youth and taught a second round of classes
  - Marketed the class using social media
  - Clearly communicated to the parents what their children were learning and answered their questions
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## Relevant Projects

### Sandbox Startup Hackathon, BYU

April 2021

Brigham Young University

Provo, Utah

- Managed a team of two developers as a project manager
- Led the team to develop a working full-stack job-recruiting app in 36 hours
- Used product prototyping software to design and test a mock app with potential users to gather feedback before UI development
- Presented the app to the hackathon judges
- Personally invited to return for the competition next year