Timothy Brown

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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

**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

**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

**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