Timothy Brown

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**Summary**

Innovative business leader and software developer with a background in applied mathematics, machine learning, and full-stack development. Proven ability to drive business growth and deliver technical solutions, including growing ARR by 523% and securing multimillion-dollar funding. Passionate about solving challenging problems, leading teams, and building scalable systems.

**Education**

**BS, Mathematics: Applied & Computational Mathematics Emphasis (ACME) April 2024**

*Brigham Young University Provo, Utah*

* Minors: Computer Science, Entrepreneurship
* GPA: 4.00
* Academic Full Tuition Scholarship
* Sandbox Startup Incubator

**Technical Skills**

* Proficient: Applied Mathematics, Statistical Modeling, Machine Learning, React, Typescript, Python, Node.js
* Experienced: AWS, Terraform, C++, Go, Next.js

**Experience**

**CTO/Software Developer March 2024-January 2025**

*ReferPro Lehi, Utah*

* Developed and maintained the software as the sole developer to grow ARR by 523%.
* Participated in meetings with Venture Capital groups to secure a 2.7M seed round.
* Communicated across internal teams and with customers to ensure the product was reaching their needs.
* Delivered improvements across infrastructure and feature sets, leveraging AWS and modern frameworks.

**Data Science Intern May 2022-September 2022**

*e-Telequote Insurance Clearwater, Florida*

* Developed and deployed deep learning models which improved sales yield by over six percent.
* Accelerated data science research by expanding and documenting the company’s internal Python library.
* Reduced product deployment errors by designing and implementing the first automatic CI/CD pipeline.
* Enabled the marketing team to decide which sales leads to purchase by providing an analysis of past sales.

**Project Manager June 2021-May 2022**

*Family History Technology Lab – BYU Computer Science Provo, Utah*

* Enabled thousands of anonymous volunteers to validate 7.5 million handwriting recognition samples.
* Developed a data pipeline to serve those samples across both web and mobile technologies.
* Led over 17 developers and 8 projects across mobile, web, server-side, and data science technologies.

**Handwriting Researcher July 2021-May 2022**

*Family History Technology Lab – BYU Computer Science Provo, Utah*

* Published a research paper describing a new method to accelerate handwriting recognition model training.
* Prepared data for handwriting recognition model training by writing custom scripts and graphical tools.