

# LEIF HUENDER

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<https://github.com/LeifHuenderML>

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## SUMMARY

Professional excelling in AI research, nonprofit leadership, and full-stack web development. Computer Science B.S. candidate with a 4.0 GPA, conducting advanced AI research at the University of Idaho. Skilled in developing LSTM models, creating scalable web applications, and leading educational initiatives. Founded a non-profit bridging the digital divide in education. Recognized public speaker and multiple academic award recipient. Combines technical expertise with strong communication skills to drive innovation across diverse fields.

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## WORK EXPERIENCE

### Research Fellow, University of Idaho Oct 2023 - Present

- Led cutting-edge research in artificial intelligence, specializing in LSTM models and their applications
- Authoring academic publications, advancing the field of artificial intelligence
- Assisted in securing research funding through strategic grant writing for groundbreaking AI projects

### CEO and Founder, Disseminate Foundation Jan 2022 - Present

- Pioneered an innovative mission to democratize internet access for underserved rural students
- Orchestrated successful global fundraising campaigns, securing substantial resources for the foundation
- Cultivated strategic partnerships with local communities, educational institutions, and corporate entities
- Implemented a large-scale technology distribution program, empowering students with essential computing resources

### Freelance Full Stack Web Developer Apr 2021 - Present

- Architected and developed responsive, scalable web applications for diverse clients using modern tech stacks
  - Implemented robust back-end systems utilizing Node.js, Express, and MongoDB for efficient data management
  - Crafted intuitive user interfaces with React.js, enhancing user engagement and experience
  - Optimized application performance through code refactoring and implementation of best practices
  - Collaborated closely with clients to translate business requirements into technical solutions
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## EDUCATION

### Bachelor of Science (B.S), Computer Science Aug 2024 - Present

University of Idaho

- Current CGPA: 4.0

### Associates of Science (A.S), Computer Science Aug 2022 - Jul 2024

North Idaho College

- Deans list for 4 consecutive semesters
- Final CGPA: 4.0

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## AWARDS AND SCHOLARSHIPS

- Binary Star Award (2024)
- Bridges to Baccalaureate Award (2023, 2024)
- Idaho Opportunity Award (2023, 2024)
- Molstead Family Memorial Award (2024)
- Pell Award (2022, 2023, 2024)
- Jim Barnet Memorial Award (2023)
- Janet Benoit Memorial Award (2023)

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## PUBLICATIONS

- Dimensionality Reduction and Similarity Metrics for Predicting Crop Yields in Sparse Data Microclimates (2024)
- Valley-Forecast: Forecasting Coccidioidomycosis Incidence via Enhanced LSTM Models Trained on Comprehensive Meteorological Data (2024)

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## SPEAKING ENGAGEMENTS

- Keynote Address: "The Critical Role of Undergraduate Research Funding" (2024)
  - North Idaho College Board of Education
  - Advocated for increased support and resources for early career researchers
- International Presentation: "Advanced Crop Yield Prediction in Data-Sparse Environments" (2024)
  - International Society of Precision Agriculture Conference
  - Introduced novel approaches to dimensionality reduction and similarity metrics in agricultural data analysis
- Health Forecasting Innovation: "Valley-Forecast: LSTM-Powered Coccidioidomycosis Prediction" (2024)
  - Statewide INBRE Conference
  - Presented groundbreaking work on disease incidence forecasting using comprehensive meteorological data
- AI and Robotics Innovations (2024)
  - Center for Intelligent Industrial Robotics
  - Introduced "ANDREA: A CUDA-first Deep Learning Framework", showcasing cutting-edge AI development techniques
  - Presented "Valley-Forecast" model, demonstrating cross-disciplinary applications of machine learning in health sciences

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## SKILLS AND EXPERTISE

- Artificial Intelligence Research
- LSTM Model Development
- Full-Stack Web Development
- Node.js, Express, MongoDB
- React.js and UI/UX Design
- Data Analysis and Visualization
- Machine Learning Algorithms
- Grant Writing and Fundraising
- Non-Profit Leadership
- Project Management
- Public Speaking and Presentations
- Academic Writing and Publication
- Interdisciplinary Collaboration
- Problem-Solving and Innovation
- Database Management
- Version Control (Git)
- Agile Methodology
- Cloud Computing Platforms
- Data Privacy and Security
- Educational Technology Integration

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## CERTIFICATIONS

- Harvard University (via edX)
  - CS50: Introduction to Computer Science
- Kaggle Courses
  - Intro to Programming
  - Python
  - Intro to Machine Learning
  - Pandas
  - Intermediate Machine Learning
  - Data Visualization
  - Feature Engineering
  - Intro to SQL
  - Advanced SQL
  - Intro to Deep Learning
  - Computer Vision
  - Time Series
  - Data Cleaning
  - Intro to AI Ethics
  - Geospatial Analysis
  - Machine Learning Explainability
  - Intro to Game AI and Reinforcement Learning
- CITI Program
  - Good Laboratory Practice (GLP)
- University Safety Training
  - AlcoholEdu and SAP-U