

Vetriliaa Kumar

Seattle, WA • vetriliaa@gmail.com • vetriliaa.netlify.app • linkedin.com/in/vetriliaa/ • github.com/vetriliaa

EDUCATION

University of Texas at Dallas – Dallas, TX

May 2025

Bachelor of Science in Computer Science, GPA: 3.6

Bachelor of Arts in Economics, GPA: 3.7

Relevant coursework: Data Structures and Algorithms, Linear Algebra, Econometrics, Business and Economic Forecasting, Discrete Mathematics I & II, Advanced Algorithms, UNIX/Operating Systems, Intro to Machine Learning

Honors & Awards: National Merit Honors Scholar, Liberal Arts Honors, Collegium V Honors

SKILLS & CERTIFICATIONS

- **Programming Languages**: Python, JavaScript, C++, Stata, SQL, Flutter, R, HTML, CSS
- **Frameworks**: React, Firebase, Unity, sklearn, PyTorch, OpenCV, TensorFlow, Git, NumPy, Netlify, Figma
- **Certifications**: CodePath Intermediate Technical Interview Prep (May - August 2025)

EXPERIENCE

UT Dallas - Texas Instruments Leadership Fellow | Dallas, TX

August 2025 - May 2025

- Selected from 200+ applicants as sole Texas Instruments Fellow for demonstrated excellence in nonprofit leadership and fundraising impact
- Increased donor targeting accuracy by building a predictive model ($R^2 = 0.94$) to identify top 5% of high-potential donors from 13K-record dataset (Python, scikit-learn)
- Supported successful \$1M Crystal Charity Ball grant for the Callier Center by conducting prospect research and co-authoring narrative sections (BlackBaud, ReNXT)

Public Interactives Research Lab - AR Development Intern | Dallas, TX

May 2024 - August 2024

- Secured 1 of 2 competitive research grants (\$4.5K) to prototype CampusKoi, an AR system for student engagement, increasing physical interaction across campus by incentivizing real-world participation
- Engineered and integrated a custom Echo server with Unity to enable real-time bi-directional data flow, reducing system response time by 47%
- Implemented computer vision pipelines in Unity and OpenCV (C++) to detect physical gestures and render real-time state changes on a mobile AR frontend

Code for Non-Profit - Co-Founder and Mobile App Developer | Austin, TX

August 2017 – August 2022

- Founded and scaled a 501(c)(3) nonprofit delivering free mobile apps to partner organizations, expanding access to mental health tools across nationwide programs
- Built and launched Heartbot, a cross-platform iOS stress management app for teens, reaching 2000+ students nationwide via the Heartfulness Institute's Heartful Schools program (Swift, React Native, Firebase)
- Built and released Alphabet of the Heart, a daily wellness app designed with Stanford's CCARE to promote emotional self-regulation (Swift, Flutter)

PROJECTS

College Compass - Software Engineer | Team of 4

[GitHub](#) | [View Project](#)

- Designed a React Native web app using NextUI to centralize resources (e.g., transit, grocery) for new international students at UT Dallas deployed to Netlify achieving 99.9% uptime for scalable, low-latency access
- Utilized: React Native, NextUI, JavaScript, Netlify

AI Ordering Assistant - UI + DevOps Engineer | Team of 3

[GitHub](#) | [View Project](#)

- Architected and produced a full-stack AI chatbot for In-N-Out on AWS tailored to natural, multi-turn conversations
- Utilized: React Native, Python, Claude 3.5 Haiku (API), MongoDB

AI Text Classification - ML Engineer | Team of 3

[GitHub](#)

- Built and evaluated RNN, FFNN, and fine-tuned BERT models to classify AI vs. human-written text, achieving state-of-the-art accuracy with BERT while optimizing FFNN for low-resource scalability
- Utilized: Python, PyTorch, Transformers (HuggingFace), BERT, NLTK, NumPy, Scikit-learn

LEADERSHIP

Kesem - Director | Dallas, TX

May 2023 - May 2024

- Spearheaded a 14-member cross-functional team across 4 departments, securing a record-breaking \$23K in funding — the highest ever raised by the UT-Dallas Kesem chapter
- Directed targeted recruitment campaigns that boosted the volunteer base by 250%, earning recognition as the fastest-growing chapter in the Southwest region
- Mobilized 30 staff and volunteers to deliver a 7-day camp experience for 55 children from families impacted by cancer, ensuring full logistical, emotional, and medical support

SWL Movement - Co-Founder & Operations Lead | Dallas, TX

March 2020 - December 2022

- Created a 501(c)(3) nonprofit during COVID-19, delivering digital mental health resources to a global network of students across 5 countries
- Mobilized a 50-member volunteer team, raising \$10K in funding from 25+ corporate sponsors and nonprofit partners
- Orchestrated a 2-day global virtual conference that reached a network of 100k students and hosted 20 speakers, boosting mental health awareness through targeted youth programming