Vetriliaa Kumar

Front-End/React Engineer | Customer-Obsessed Builder

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Creates production web & mobile UI used by 3 000+ users. Proficient in HTML/CSS/JS, React/React Native, and CS fundamentals (DS&A, OO design). Comfortable owning the full SDLC: scoping, design, code, test, deploy and ops.

EDUCATION

Bachelor of Science in Computer Science (May 2025) • **University of Texas at Dallas** • GPA: 3.6

Bachelor of Arts in Economics (May 2025) • University of Texas at Dallas • GPA: 3.7

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

SKILLS & CERTIFICATIONS

- **Programming Languages**: Python, JavaScript/TypeScript, C++, Stata, SQL, Flutter, R, HTML, CSS
- **Frameworks:** React, React Native, Angular, Firebase, Unity, 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 2024 - June 2025
- Selected from 200+ applicants as sole Texas Instruments Fellow for for excellence in nonprofit leadership
- 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 that delivered mission-aligned mobile apps to nonprofit partners, expanding access to youth mental health tools across the U.S
- Built and launched Heartbot, a cross-platform stress management app for teens, reaching 3000+ students nationwide via the Heartfulness Institute's Heartful Schools program (Swift, React Native, Firebase)
- Developed Alphabet of the Heart, a daily wellness app designed with CCARE at Stanford to promote emotional self-regulation (Swift, Flutter)

PROJECTS

LookAway Extension - Software Engineer | Team of 1   GitHub | View Project
- Chrome extension to reduce eye strain by reminding you every 20 minutes to look away from your screen for 25 seconds (HTML, CSS, JSON, Javascript, Manifest v3)

College Compass - Software Engineer | Team of 4   GitHub | View Project
- Designed a React Native web app centralize resources (e.g., transit, grocery) for new international students at UT Dallas (React Native, NextUI, JavaScript, Netlify)

AI Ordering Assistant - UI + DevOps Engineer | Team of 3   GitHub | View Project
- Architected and produced a full-stack AI customer service chatbot for In-N-Out on AWS (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 (Python, PyTorch, Transformers (HuggingFace), BERT, NLTK, NumPy, Scikit-learn)