

Vetriliaa Kumar

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EDUCATION

Bachelor of Science in Computer Science (May 2025) • University of Texas at Dallas

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

Programming Languages: Java, JavaScript, Python, C++, SQL, HTML/CSS, TypeScript

Web Technologies: Node.js, React, Angular (learning), REST APIs, WebSocket

Databases: PostgreSQL, MySQL, MongoDB, SQL query optimization

Cloud & DevOps: AWS deployment, Docker, containerization, Git, CI/CD pipelines

Development Practices: Agile methodologies, full-stack development, API integration

PROJECTS

College Compass - Full Stack Engineer | Team of 4

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

- Developed response web application using JavaScript, HTM/CSSL, and TypeScript to centralize campus resources for international student
- Implemented component-based architecture, deployed via automated CI/CD pipeline, reduced resource discovery time by 40%
- Collaborated with cross-functional team using Agile methodologies to deliver user-focused features

WeatherGenie - Full Stack Developer | Team of 1

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

- Built full-stack weather application using React with TypeScript, Node.js backend services, and PostgreSQL database with REST APIs and WebSocket real-time updates
- Developed full-stack web application using JavaScript/TypeScript frontend with Node.js backend services and PostgreSQL database, implementing RESTful APIs and WebSocket connection for real-time data processing
- Built responsive HTML/CSS interface with cross-platform compatibility, reducing API response times by 60% through optimized caching strategies

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

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

- Built scalable chatbot application with JavaScript frontend and Python backend, integrating third-party APIs for natural language processing
- Deployed production system on AWS cloud infrastructure with MongoDB database, and automated testing pipelines
- Collaborated using Agile development practices including daily standups and sprint planning for continuous integration

EXPERIENCE

UT Dallas - Software Engineering Intern | Dallas, TX

August 2024 - June 2025

- Built predictive donor analytics model **processing 13,000+ database records** using Python and SQL, achieving **94% accuracy** and reducing **manual research time by 43%** (Python, SQL, Excel)
- Developed data pipeline infrastructure with REST APIs supporting real-time analytics for grant research, contributing to successful \$1M funding acquisition (ReNXT, Python, Outlook)

Public Interactives Research Lab - Software Engineering Intern (AR) | Dallas, TX

May 2024-August 2024

- Built CampusKoi, an AR gaming platform focusing on real-time systems performance and scalable backend architecture
- Collaborated in an Agile environment to deploy a **custom backend** architecture enabling real-time bidirectional **data pipelines**, achieving 80% performance improvement (Echo, Unity, C++)
- Implemented computer vision system for real-time state management on a mobile AR frontend (OpenCV, C++)

Kesem - Director | Dallas, TX

May 2023 - May 2024

- Spearheaded a 14-member cross-functional team to drive chapter growth through strategic planning and end-to-end campaign development—securing a **record-breaking \$23K in funding** and **growing the volunteer engagement by 250%** (Asana, Slack)

Code for Non-Profit - Co-Founder and Software Engineer | Austin, TX

August 2020 – August 2022

- Founded a 501(c)(3) nonprofit building **scalable, production-ready** mobile apps to nonprofit partners
- Built and launched [Heartbot](#) stress management app with Heartfulness Institute through using **user stories** to define teen-focused features **reaching 3000+ students** nationwide (**Swift, Firebase, Figma**)
- Developed [Alphabet of the Heart](#), a **daily wellness app** designed with CCARE at Stanford to promote emotional self-regulation (**Swift, Flutter, Figma**)