Don (Nethum) Weerasinghe

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Education

Texas A&M University College Station, TX

Bachelor of Science in Computer Science, GPA: 3.6/4.0 May 2028

- **Relevant Coursework**: Advanced Data Structures & Algorithms, Systems Programming, Machine Learning, Computer Architecture, Linear Algebra, Discrete Math, Functional & Object-Oriented Programming

Experience

Software Engineering Intern May 2026 – Present

Global Shop Solutions *The Woodlands, TX*

- Co-built and launched Traveler with two other engineers, scaling a **Next.js/TypeScript** project-management platform from prototype to approximately **20 users** while phasing out Monday.com and saving **$25K** annually
- Built a token-efficient Traveler MCP server that enabled approximately **20 employees** to manage tickets through AI agents, with over **90%** of updates completed through the MCP
- Refactored complex Data Access Managers in customer-facing production code, reducing code volume by over **60%** and cutting data-retrieval time by **34%**
- Replaced 5-minute polling with webhook-triggered syncs between **GitHub** main and an internal **Docker/Kubernetes** hosting tool, cutting merge-to-deploy latency by **90%**

Design Engineer, Contract Aug 2026 – Present

Elysian

- Designed and built the storefront for an ecommerce label running at **$500K ARR** with more than **50,000 visitors** a month
- Shipped the whole shopping surface in static **HTML**, **CSS**, and **JavaScript** ahead of the move to **Shopify Liquid**, covering product pages, cart, search, and the phone layout

Undergraduate Researcher Jan 2026 – Present

Sketch Recognition Lab *College Station, TX*

- Engineered an end-to-end machine-learning pipeline for medical-image segmentation, including preprocessing, embedding caching, training, **Dice/IoU/HD95** evaluation, and visualization
- Ran training and evaluation on Texas A&M's Grace HPC cluster via **A100 GPU** jobs and **Slurm** scripts

Projects

Seer · *Rust, QUIC, PTY, Linux, macOS* Aug 2026 – Present

- Built **Seer**, a multiplayer terminal multiplexer in **Rust** where a whole team shares live terminal sessions on one server, across machines and operating systems
- Isolated every user in their own **process** under their own **OS account**, dropping privileges so one person's terminals cannot reach another's files, with a supervisor that detects and cleans up crashed sessions
- Made sessions survive disconnects, restarts, and crashes with versioned snapshots, **atomic fsync-backed writes**, and structural validation of the pane tree on load, so **PTYs** keep running on the server and reattach with full state

Stamped · *TypeScript, Next.js, Supabase* · usestamped.us Nov 2025

- Won **1st Place in the Goldman Sachs track at HackUTD** by building a multi-role onboarding platform for financial institutions, vendors, and employees
- Architected a **Supabase** authentication service supporting sign-up, sign-in, and password-reset flows
- Built an event-driven notification service managing real-time updates for document approvals and risk assessments

Open Source Contributions

NVIDIA/cudf Jun – Aug 2026

Open Source Contributor

- Closed a **pandas API compatibility gap** in NVIDIA cuDF by implementing DatetimeIndex.indexer_between_time for GPU DataFrames, validating time zones, midnight-spanning ranges, endpoints, and NaT with **22 regression tests**
- Extended a Python data-ingestion API with in-memory **BytesIO** support, adding automated regression coverage for file-like inputs
- Fixed **FLOAT32 input validation** for infinite values and expanded pre-commit quality checks to hidden configuration files

rapidsai/rmm Jul – Aug 2026

Open Source Contributor

- Eliminated false **out-of-memory failures** in NVIDIA RAPIDS RMM, restoring **C++ memory-pool** allocations to **100% of configured GPU capacity** through free-block reclamation
- Made silent allocation-pointer leaks **compile-time detectable** across **22 C++ memory-resource files** by adding [[**nodiscard**]] enforcement to **allocate** and **allocate_sync**

Technical Skills

Languages: Python, C++, Rust, SQL, Java, TypeScript, JavaScript, Swift
Frameworks & Libraries: PyTorch, CUDA, cuDF, Pandas, NumPy, FastAPI, Next.js, Supabase
Tools & Platforms: Linux, Slurm, Docker, Kubernetes, Git, PostgreSQL, Jupyter