

VIET-ANH DANG

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EDUCATION

The University of Texas at Austin, Austin, TX

May 2028

Bachelor of Science, **Computer Science**; Minors in **Statistics & Data Science**, **Business**

Coursework: Data Structures, Computer Architecture, Intro to Data Science, Operating Systems, Game Design Paradigms

ABOUT ME

Technical Skills: Python, Typescript/JavaScript, Next.js, Agentic Engineering, PostgreSQL, Prisma, Cloud Infrastructure

Skills: Web Dev, Machine Learning, CI/CD, Github, Data Science & Engineering, Agile Development, Systems Design

Interests: Music (Jazz, Blues), Guitar, Singing, Minecraft, Working Out, Outdoors/Hiking, Volunteering, Gastronomy

PROJECTS

GeoFWI | Python, PyTorch, CNNs, Geophysical Simulation

June 2026 - Present

- Developing a **diffusion model** that reconstructs full 2D subsurface velocity sections from a single 1D velocity profile via an encoder-decoder architecture.
- **Replaced a geometrically-stamped synthetic dataset** with a genuine forward stratigraphic simulation pipeline to eliminate physically implausible training artifacts.
- **Fixed data leakage** by moving to a group-aware 70/15/15 train/val/test split and added full run seeding.
- Added **baseline predictors** to contextualize model performance and correct test-set leakage in the evaluation loop.

Beehive | Next.js, TypeScript, PostgreSQL, Prisma, NextAuth, Tailwind, Vitest, Playwright

July 2026 - Present

- Built a full-stack **club management platform** for volunteer organizations, covering hours tracking, carpool coordination, event management, and attendance check-in.
- Designed an **event-centric data model** with role-based perms supporting multi-organization membership per user.
- Shipped a complete MVP with **23 passing tests** (17 unit, 6 E2E) and a **CI/CD pipeline** (GitHub Actions, Vercel staging deploys); packaged as an installable, offline-capable PWA.

Project Phthisis | KubeJS, Python, Minecraft Forge, Linux (Ubuntu), Cloud Infrastructure

August 2026 - Present

- **Integrated 300+ independently-authored mods** (guns, vehicles, automation, mob AI) into one balanced system using **overlay-based scripting** rather than patching upstream files, preserving reproducible upgrades.
- Built a **475-entry balance spreadsheet** paired with a **drift-verification tool** to catch config/spec mismatches.
- **Diagnosed and resolved** a pack-wide loot-registration outage and cross-file load-order bugs, with error handling.
- **Deployed and administered** a dedicated Oracle Cloud Infra (Ubuntu) server to host and test the modpack for players.

Satella | Python, FastAPI, Web Scraping

May 2026 - Present

- Building an **evidence-gathering pipeline** that assembles sourced, human-checkable dossiers on public accounts rather than issuing automated verdicts.
- Architected a **five-source scraper pipeline** that fails soft and merges results into unified per-subject records.
- Enforced data-integrity principles throughout: **deterministic detection logic**, source citations on every finding, and confidence floors to prevent low-sample false positives.

UT-Compass | Next.js, Firebase, FastAPI, Docker, Python, DeBERTa, NLP

January 2026 - Present

- Built a full-stack campus event recommendation platform for UT Austin.
- Engineered an automated ingestion pipeline that scrapes more than 300 events from HornsLink daily, enriching them using zero-shot NLP classification and an LLM-powered tagging layer (via OpenRouter API).
- Ranked events in real time against user profiles built from major, interests, and hobbies to personalize recs.

LEADERSHIP & EXPERIENCE

Oden Institute for Computational Engineering and Sciences, Austin, Texas | URA

February 2026 - Present

- **Collaborating** with Dr. Sergey Fomel to research and implement transformers for analysis of geophysical data.
- **Developing GeoFWI with a post-doc** by integration with Dr. Fomel's legacy code and training on novel data.
- **Mentored** to understand **architectural tradeoffs** between various machine learning workflows, guided to apply these techniques to challenges in other fields like astronomy (PLAsTiCC) or environmental science (DS4G).

Texas Product Engineering Organization, Austin, Texas | *Engineering Fellow*

September 2025 - Present

- **Selected as one of 10 Engineering Fellows** from a highly competitive applicant pool of over 250 people.
- Working with cross-functional teams on real-world **solutions for Austin nonprofits and startups**.