Hieu Pham

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EDUCATION

Texas Christian University | Fort Worth, TX   **Dec 2025**

B.S. in Data Science, Minors in Mathematics | GPA: 3.9

- **DS & CS courses:** Data Mining, Linux System Administration, Database Systems, Data Structures & Algorithms

TECHNICAL SKILLS

Languages: Java, Python (Pandas, NumPy, Scikit-learn, Matplotlib), JavaScript, SQL, HTML-CSS, Linux

Tools & Frameworks: Spring Boot, Thymeleaf, Streamlit, Docker, Git, Apache Airflow

Other: Agile/Scrum methodologies, Test-driven development (TDD), Continuous Integration/Deployment (CI/CD)

RELEVANT EXPERIENCE

Fullstack Developer Intern | Viettel CX | Remote   **May 2025 – Aug 2025**

- Built and deployed a **Customer Relationship Management (CRM)** platform enabling admins, managers, and employees to manage clients, contracts, and workflows in one centralized system, improving cross-team coordination.
- Engineered a **contract management module** that distinguished between "in-progress" and "done-deal" contracts, while maintaining shared attributes for smooth transitions, **reducing manual errors by ~30%**.
- Optimized front-end interfaces with **Thymeleaf HTML**, **Tailwind CSS**, and **JavaScript**, improving user experience and decreasing task completion time for managers by **~20%**.

Software Engineer | Trailspur | Fort Worth, TX   **Aug 2024 – May 2025**

- Collaborated in a team of 7 to design and deploy an **automated data pipeline** with **Python, AWS Lambda, and Supabase**, reducing manual work by **~50%** and cutting costs by eliminating reliance on ArcGIS.
- Designed **geospatial visualizations** (polygon overlays, filtering, investment hotspots), improving client decision-making and reducing Excel-based manual analysis by **~35%**.
- Collaborated in a **two-semester Agile project**, meeting weekly to plan and execute sprints using **Jira**; maintained consistent velocity and delivered all milestones on time through effective code reviews.

DSA & Math Teaching Assistant | Texas Christian University   **Aug 2022 - Present**

- Delivered **200+ hours of instruction and code reviews** in programming (Python, Java) and core CS courses including Data Structures & Algorithms, supporting 150+ students through assignment design, debugging guidance, and mentorship.

PROJECTS

Customer Relationship Management System | Full-Stack Application   [Link](#)** | Summer 2025**

- Designed and deployed a full-stack **Java Spring Boot** CRM application with **MySQL**, **Spring Security**, and **Thymeleaf**, enabling role-based access, client management, and contract workflows.
- Implemented automated testing and **CI/CD** pipelines, reducing errors by **30%** and improving overall system reliability.

Illness Forecasting Platform | Data Science & Predictive Analytics   [Link](#)** | Spring 2025**

- Built and deployed a forecasting platform using **Linear Regression**, **Random Forest**, and **XGBoost**, achieving 0.106 RMSE and 0.960 R^2 on CDC surveillance data.
- Automated data ingestion and preprocessing pipelines, reducing manual data preparation time by **40%** while ensuring reproducibility and scalability.

HONORS AWARDS & LEADERSHIP EXPERIENCE

- **President of Internal Affairs, Vietnamese Students Association (2022 – 2023)** – Advocated for Vietnamese student voices, promoted cultural visibility, and supported incoming international students.
- **Undergraduate Research Funding, TCU CSE Symposium (2024)** – Awarded competitive funding to present research among top student scholars.