

# Tien Nguyen

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## EDUCATION

### Texas Christian University - John V. Roach Honors

Bachelor of Science in Computer Science

Expected May 2028

Cumulative GPA: 3.92/4.00

- **Honors/Awards:** Dean's List (All Semesters), Founders Scholarship (All Semesters)
- **Relevant coursework:** Data Structures and Algorithms, Object-oriented Programming, Unix/Linux System, Web Development, Computer Organization, Intro to Computer Networks, Database System, Linear Algebra, Discrete Math I & II, Calculus I & II

## WORK EXPERIENCE

### FPT Information System (FPT IS)

May 2025 – Aug. 2025

Software Engineer Intern

Hanoi, Vietnam

- Built backend services using **FastAPI** and **SQLAlchemy** for a business registration support system, improving data processing efficiency by **20%** for internal staff operations.
- Developed an interactive frontend using **UmiJS**, **TypeScript**, and **Ant Design** with advanced filtering, multi-step forms, and an Excel export feature, reducing manual data handling time by **40%** for administrative staff.
- Developed and maintained the relational database schema in **Oracle SQL**, implementing full CRUD modules and complex cascading select logic that ensured **99.9% data integrity** across multiple related tables.
- Delivered a live demo of the Biznext business registration support system to **20+ officials** from Vietnam's Ministry of Public Security, which secured approval for pilot adoption and positioned the system for nationwide rollout.
- Implemented modules for the POS WebAdmin panel, including user roles, store configurations, and real-time monitoring, used daily by **50+ admin users**.

### Finbud AI

May 2025 – Aug. 2025

Software Engineer Intern

Remote

- Built and deployed a **JavaScript** data pipeline to automate content scraping and LLM summarization via **OpenRouter API**, storing results in **AWS S3** and automating hourly updates via **AWS EventBridge**, reducing manual research time by **90%**.
- Developed a custom stock ranking algorithm and a suite of robust backend APIs using **AWS Lambda Functions** to serve news summaries, sentiment analysis, and financial tags to the frontend.
- Designed a relational **PostgreSQL** schema to efficiently store and retrieve summarized news articles, sentiment scores, and financial tags, enforcing constraints that maintained **99.9% data integrity** across hourly ingests.
- Built a responsive **Vue.js** frontend to deliver ranked stocks, sentiment-tagged summaries, and real-time updates, improving analyst **workflow efficiency by 30%** and increasing feature adoption among daily users.

## PROJECTS

### British Airways Dashboard | TypeScript, Next.js, Node.js, AWS, Snowflake

Apr. 2025

- Collaborated in a **4-member Agile team** to build a full-stack dashboard website visualizing **3,000 reviews across 11 years** of British Airways reviews, combining efforts in data engineering, data analysis, and software development.
- Implemented a responsive and SEO-optimized frontend using **Next.js** and **Tailwind CSS**, with dynamic visualizations powered by **Chart.js**, achieving **90+ Lighthouse performance** and accessibility scores.
- Built and deployed a backend server using **Node.js** on **AWS EC2**, serving up-to-date review data directly from JSON files stored in **AWS S3** with **sub-second API response times**.
- Architected and automated a serverless data pipeline using **AWS EventBridge** to daily filter and update review data in **AWS S3**, maintaining a dashboard with **zero manual intervention** post-deployment.

### E-Commerce Website | TypeScript, Next.js, MongoDB, Clerk, Stripe

Mar. 2025

- Designed and created a responsive fashion website, featuring product filtering, cart, **Clerk-authenticated** login, and a **Stripe-integrated checkout demo**.
- Constructed and optimized the **MongoDB** schema for products, orders, and users, creating indexes and optimized aggregation queries that improved filtering, search, and order retrieval speed by **35%**.
- Introduced a minimalist **admin panel** for order tracking and delivery management, improving the operational efficiency of the e-commerce workflow by **25%**.

## TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript, TypeScript, C/C++, CSS, HTML, SQL, NoSQL
- **Frameworks:** Vue.js, React.js, Node.js, Express.js, REST APIs, Tailwind CSS, Next.js, Nuxt.js, UmiJS, FastAPI, Spring, Spring Boot
- **Tools & Technologies:** UML, Git, GitHub, Github Action, Gitlab, Google Colab, Postman, Sourcetree, AWS, Maven
- **Databases:** PostgreSQL, SQL Server, MongoDB, Neon, Oracle, Snowflake