

# Chuong Tran

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## EXPERIENCE

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### Infodat

January 2024 - Present

#### Software Developer

Houston, TX

- Developed and maintained a full-stack TypeScript/Java (Spring Boot) application for the Consignment Program, collaborating in Agile sprints to drive design decisions and code reviews.
- Optimized backend services and queries to cut auto-ordering latency by 15%, supporting higher customer capacity and order volume.
- Enhanced front-end workflows and UX through responsive UI and caching optimizations, improving page load times by 30%.
- Partnered with PMs to design and deliver admin-controlled user permissions system, enabling role-based view-only access across the platform.
- Designed reusable D3.js visualization component, cutting chart implementation time by 70% and ensuring consistent analytics UI.
- Developed event-driven microservices using Google Cloud Pub/Sub, increasing item processing efficiency by 50% and enabling reliable asynchronous workflows.
- Diagnosed and resolved 10+ customer-reported production issues monthly, maintaining system reliability and minimizing disruption across active client accounts.
- Contributed significantly to Ember.js 4 to 5 migration, replacing legacy patterns and refactoring core modules to improve maintainability and development velocity.

### Infodat

May 2023 - December 2023

#### Software Developer Intern

Houston, TX

- Delivered 5 production-ready features using React and Spring Boot, enhancing user experience and product adoption.
- Implemented a CI/CD pipeline with GitHub Actions and AWS EC2, reducing release time and enabling continuous delivery.
- Maintained 80% test coverage through unit and integration testing, improving reliability and minimizing bugs.

### University of Houston

August 2022 - May 2023

#### Teaching Assistant

Houston, TX

- Led weekly labs for 50+ students, creating C++ exercises that strengthened understanding of data structures and algorithms.

## EDUCATION

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### University of Houston

December 2023

#### B.S in Computer Science

GPA: 3.9

## SKILLS

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**Programming & Frameworks:** Java, C/C++, JavaScript, TypeScript, Python, Spring Boot, React.js, Next.js, Node.js, Ember.js, HTML/CSS, REST APIs, LangGraph, LangChain

**Databases & Cloud:** MongoDB, MySQL, AWS EC2

**Tools & Infrastructure:** Kafka, Github Actions, Docker, Git, Selenium

## PROJECTS

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### Real Estate Simulation Engine

- Built a multi-agent real estate simulation system where 6 LLM-powered agents — buyer, landlord, lender, investor, developer, and renter — interact to generate comprehensive investment recommendations including pricing, ROI projections and risk assessments.
- Designed a stateful, event-driven engine with structured LLM outputs and financial scoring tools to model supply, demand, and sentiment dynamics across configurable market scenarios.
- Technologies: Python, LangGraph, LangChain

### AI Resume Builder

- Built an AI-powered career tool that analyzes job descriptions and generates tailored suggestions — bullet rewrites, keyword matches, and skill gap recommendations.
- Implemented a Puppeteer-based PDF export pipeline with binary search font-size fitting to dynamically compress resume content to a single page while preserving layout fidelity.
- Technologies: Next.js, TypeScript, PostgreSQL, Vercel AI SDK

### Brain Tumors Classification

- Compared custom CNN against VGG16, VGG19, and ResNet50 transfer learning for brain MRI classification across 4 tumor classes, achieving 91% accuracy with VGG16 on 3,000+ images evaluated across F1, precision, recall, and confusion matrices.
- Technologies: Python, Tensorflow, NumPy