NGOC (ROY) TRUONG

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Education

University of Nebraska - Lincoln **Sep. 2022 – May 2026**
Bachelor of Science in Software Engineering *Lincoln, NE*
GPA: 3.63/4.00

Relevant course: Software Engineering (I, II, III, IV), Machine Learning, Software Design & Architecture, Data Modeling System, Design & Analysis Algorithms, Testing & Verification Analysis , Discrete Structure, Human-Computer Interact, Cloud Distributed Operating System

Certificate

Build and Deploy Machine Learning Solutions on Vertex AI - Google **March 2025**

Manage Kubernetes in Google Cloud - Google **March 2025**

Use Machine Learning APIs on Google Cloud - Google **February 2025**

Projects

Zulip Chat Feature Enhancement | *Python, JavaScript, TypeScript, CSS* **January 2024 - May 2024**
- Implemented **private message thread mute functionality** and **video tutorial integration** in a large-scale codebase (**50K+ lines**)
- Led a **4-person Agile team** across **7 sprints**, rotating roles (Scrum Master, PM, Tech Lead) with **95% sprint completion**.
- Navigated a multi-language legacy codebase to deliver scalable feature updates.

MedChoices | *React/Redux, Javascript* **September 2023 - December 2023**
- Designed and deployed a **healthcare scheduling web app** for UNL Health Center using React and Redux.
- Boosted **appointment efficiency by 25%** and improved **user engagement by 50%** via symptom-based provider matching.
- Applied **user-centered design principles** to streamline booking workflow.

Travel Planner App | *SQL, Python, Kivy* **May 2023**
- Built a **full-stack travel planner** enabling users to create custom itineraries with dynamic activity, date, and route suggestions.
- Engineered a responsive frontend with HTML/CSS and a Python backend integrated with a SQL database.
- Designed a **scalable DBMS** to manage operators, airplanes, and airports for **accurate travel data retrieval and updates**.

Experience

BuilderTrend via Design Studio, UNL **September 2024 - Present**
Software Developer *Lincoln, NE*
- Collaborated within a **cross-functional team** to contribute to the development and enhancement of Buildertrend's software solutions, participating in code reviews and **Agile ceremonies**.
- Worked with senior developers and a Microsoft coach to continuously **improve code quality** and adhere to **industry best practices, resulting in cleaner, more efficient code**.
- Experimented with **Large Language Models (LLMs) and text embeddings** to optimize data summarization and implement recommendation features by using **OpenAI API (using ChatGPT)** to elevating the user experience.

Nebraska School of Computing, UNL **August 2024 - Present**
Teaching Assistant *Lincoln, NE*
- Consulted **250+ students** with debugging, optimizing code, and developing embedded system applications.
- Led hands-on lab sessions on **machine language programming, digital arithmetic, and input/output system management**.
- **Clarified students** in understanding and applying key concepts, including **Boolean Logic, Processor Organization, and Memory Management**.

Technical Skills

Languages: Python, Java, HTML/CSS, JavaScript, C, C++, C#, Golang
Frameworks/Libraries: React/Redux, .NET, Kivy, NumPy, pandas, scikit-learn, TensorFlow, Cypress
Databases: MySQL, PostgreSQL, SQLite, NoSQL
Tools: Git, Figma, GitHub, Azure DevOps, REST APIs, Postman,Visual Studio, Windows/Linux Environments