

# Tin Ngo

📍 Iowa, United States   ✉ tinngo365@gmail.com   ☎ (515) 357-2294   🔗 in/tinngo56   🌐 tinngo.netlify.app

## EDUCATION

### Bachelor of Science in Software Engineering

Iowa State University • January 2021 – December 2024 • 3.45 GPA

## EXPERIENCE

### Cloud Software Engineer

John Deere

December 2022 – Present, Ames, Iowa

- Achieved a projected **\$1.1 million** in annual cost savings by contributing to the foundation of new cloud infrastructure.
- Removed over **140,000 vulnerabilities** across the organization by spearheading the development of an automation framework.
- Increased workflow speed by up to **91%** through the integration of GitHub matrix and artifacts to expedite workflows.
- Employ **Test-Driven Development** (TDD) principles in development.
- Leverage **Docker**, **LocalStack**, and **Moto** to create **integration tests** for microservices.
- Maintain and advance multiple cloud infrastructure microservices.
- **Mentor peers** and created an introductory project and learning roadmap, later adopted as an onboarding tool.

## PROJECTS

### Personal Website

[tinngo.netlify.app/](https://tinngo.netlify.app/) • July 2024 – Present

- Built a personal website to learn more about JavaScript and front-end development.
- Utilized React for component-based architecture for reusability.

### GridGPT – Senior Design Project

January 2024 – Present

- Leading the integration of advanced AI models (OpenAI and Hugging Face) for the GridGPT project, enhancing smart grid operations.
- Develop backend APIs using Flask that interact with external APIs and LLMs deployed on ISU's High-Performance Computing Clusters.
- Collaborate with front-end developers and AI model trainers, contributing to API design and AI model refinement, ensuring seamless integration of user-friendly interfaces with accurate, data-driven AI insights for grid operators.

### Moto – Open Source Contribution

[github.com/getmoto/moto/pull/7959](https://github.com/getmoto/moto/pull/7959) • August 2024 – August 2024

- Refactored the `create_change_set` function in the Moto project to centralize and enhance parameter validation, improving consistency and maintainability.

### Thrifty – App Development

January 2023 – May 2023

- Led backend team in creating a digital platform for thrift stores to showcase and sell products, enhancing online retail capabilities.
- Utilized Java, Spring Boot, MySQL, and Swagger API for robust and efficient system design.

## INVOLVEMENT

### Digital Communications Director

Iowa State University • Hackathon Club • August 2022 – May 2024

- Boosted membership by over 40% and established a community of dedicated hackers.
- Assisted in organizing a hackathon for Iowa State students on campus.
- Hosted workshops and meetings for the participating students.

## SKILLS

Languages: Python, Java, JavaScript, SQL

Frameworks & Libraries: Spring Boot, Flask, React

Tools & Technology: REST API, Linux, Git

Cloud & DevOps: AWS, Infrastructure-as-Code, GitHub Actions, Docker, LocalStack