

TONY NGO (PhD)

(202) 550-9149

ngo.m.toan@gmail.com

[PORTFOLIO](#)

[GITHUB](#)

[LINKEDIN](#)

SKILLS React, Redux, JavaScript, Python, C++, Java, Android Studio, Linux, HTML, CSS, SQL, PostgreSQL, Flask, Express, AWS, Heroku, UI/UX, APIs, QtCreator, CAD, Autodesk Inventor, PCD design, 3D Printing, Arduino, Raspberry Pi

PROJECTS

DRONEST Full-stack Web App (React-Redux, Python/Flask, Javascript/Sequelize, Websocket) [live](#) | [github](#)

Social media platform where drone enthusiasts connect and share aerial photos/videos; triple servers (SOLO project)

- Developed frontend with a sleek user interface and responsive components using React, Redux & JavaScript
- Utilized Flask, SQLAlchemy, and PostgreSQL to implement a backend server (that stores data/photos/videos and serves REST API routes and AWS file uploading) and optimize it to reduce load time and increase performance
- Leveraged Websocket & ExpressJS to create a third server that hosts instant group messaging to engage users

INSTAVIBES Full-stack Web App (React-Redux, JavaScript, Python/Flask) [live](#) | [github](#)

Clone of Instagram (Group project with 4 team members, personally responsible for 40% of workload)

- Implemented Python/Flask backend and REST API routes, deployed app to Heroku, set up the whole database
- Designed user following/follower features, stories, user profile page, and direct messaging function

TRIPCAMP Full-stack Web App (React-Redux, JavaScript, Sequelize) [live](#) | [github](#)

Clone of www.Hipcamp.com (SOLO project)

- Employed JavaScript/Sequelize/PostgreSQL to build the backend server and API routes serving dynamic contents
- Developed React/Redux frontend, Google Maps API, and social media functions to elevate user experience

VUIR Android App (Java, C++, JavaScript, QtCreator, XML) [live](#) | [github1](#) | [github2](#)

Production application, hosted on Google PlayStore, for businesses and professionals to control their thermal drones

- Designed Android Apps using Android Studio to allow real-time equipment control and data collection
- Researched and developed hardware and software (C++) to integrate drones with their payloads

SOFTWARE ENGINEERING EXPERIENCE

Chief Engineer

sUAS LLC - MD, US

May 2017 - now

- Develop full-stack software solutions and commercialize them to generate \$1M+ in revenue within 6 months
- Use development tools such as Android Studio IDE, Git Source Code Control to develop solutions in Linux
- Work with clients to understand and step out requirements, use cases, and storyboards

Engineer

intelligentUAS

Aug 2012 - May 2017

- Designed suites of products that formed the core of the business and set it apart from competition
- Introduced innovative product features that reduce material cost and increase profit margin to 90%
- Established relationships with government agencies and business entities for potential business opportunities

EDUCATION

Fullstack Software Engineering - App Academy | Spring 2021

PhD - Physics - SISSA Trieste Italy | 2003 - 2006

Master - Physics - ICTP Trieste Italy | 2002 - 2003