

TONY NGO (PhD)

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<https://tonyngo.me>

[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

EXPERIENCE

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

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

- Developed responsive components on the frontend, using React, Redux & JavaScript, allowing for a clean and intuitive user interface
- Utilized Flask, SQLAlchemy, & PostgreSQL to implement the backend (that stores data/photos/videos and serves REST API routes and AWS file uploading), optimizing the server 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 Clone of Instagram (React-Redux, JavaScript, Python/Flask) [live](#) | [github](#)

- Employed React, Redux & JavaScript to implement 'Following', Messaging, User Profile and the 'trendy Stories' features, enhancing overall user engagement and UX
- Implemented backend with REST API routes and Postgres Database using Python/Flask and AWS S3 file hosting

TRIPCAMP Full-stack Web App Clone of Hipcamp.com (React-Redux, JavaScript, Sequelize) [tripcamp.us](#) | [github](#)

- 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

EMPLOYMENT

Chief Engineer sUAS LLC - MD, US

May 2017 - Present

- Leads a team of engineers to develop full-stack software solutions and commercializes their use, surpassing \$1M+ in revenue in 6 months
- Leverages development tools, such as: Android Studio IDE and Git Source Code Control to troubleshoot and develop solutions in Linux
- Works with clients to ensure both functionality and technical feasibility are met

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 reduced material cost and increased profit margin by 90%
- Established relationships with government agencies and business entities for potential business opportunities

Faculty Researcher University of Maryland

Dec 2006 - Aug 2012

- Researched and performed simulation of DNA and proteins, published 11+ scientific papers with 390+ citations
- Co-supervised 3 graduate students in finishing their PhD degrees.

EDUCATION

Fullstack Software Engineering - App Academy

PhD - Physics - SISSA Trieste Italy

Master - Physics - ICTP Trieste Italy