Kittiwin Kumlungmak

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Github: https://github.com/Kittiwin-Kumlungmak

Education

Chulalongkorn University, Thailand Aug 2021 - Current
Master of Science in Computer Science (part-time)

Florida Institute of Technology, Melbourne, Florida Dec 2019
Bachelor of Science in Aerospace Engineering, GPA 3.95, Summa Cum Laude

Skills

Google Cloud Platform, Terraform, PySpark, Python, Machine Learning, PyTorch, Scikit-Learn, Tableau, Fusion 360, 3D printing, GD&T, Aircraft Performance Testing, C++, Creo Parametric, MATLAB

Experience

HG Robotics Co., Ltd. Feb 2020 - Current
Aerospace Engineer
VETAL: Vertical Takeoff and Landing Unmanned Aircraft for Large Scale Surveys
https://www.hiveground.com/vetal/

- Design structure and aerodynamic surface for composite fabrication
- Employ aerodynamics, UX/UI and human factors in the design
- Prototype mechanical design concepts via 3D printing
- Collaborate with production engineers in material selection and fabrication planning
- Integrate avionic elements and sensors into aircraft
- Perform flight testing and parameters tuning to optimize flight performance
- Customize UAV design based on mission requirements

Chulalongkorn University, Thailand Aug 2021 - Current
Artificial Intelligence course: Bangkok Commute Project Sep 2021
GitHub: https://github.com/Kittiwin-Kumlungmak/bkk-commute-AI

- Implemented A-star search to find optimal route to travel in Bangkok via public transportations

Big Data Tools: Cryptocurrency Dashboard Dec 2021

- Acquired klines data from Binance and stored in MongoDB
- Extracted technical indicators from klines data with PySpark installed in Google Dataproc cluster
- Displayed klines data and technical indicators on custom dashboard created with Google Data Studio
- Deployed infrastructure with Terraform (Infrastructure as Code framework)

Cisco Systems, Inc., Thailand June 2017 – Aug 2017
Intern Test Engineer

- Prototyped web application for collecting data and warnings abnormal quality situation with Python and Flask
- Developed visualization tool for observing failure record of production lines with Tableau

Florida Institute of Technology, Melbourne, Florida Jan 2016 – Dec 2019
NASA Robotic Mining Competition Jan 2018 – May 2019

- Designed and built robot for excavating, collecting, and delivering icy simulants on simulated Martian environment
- Led excavation and delivery subsystem to design and built excavation belt and delivery belt
- Awarded “Best in Show 2019” of aerospace engineering in 2019 Northrop Grumman Student Design Showcase

Honor

- Distinguished Student Scholar Award 2018 – 2019
- Summa Cum Laude 2019