

Karakus Volga Can

<http://volgakarakus.com>
vkaraku2@illinois.edu | 217.898.7353

EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

BACHELOR'S DEGREE IN
AGRICULTURAL ENGINEERING
MINOR IN COMPUTER SCIENCE
Grad. May 2018 | Illinois, USA

LANGUAGES

FLUENT:

English, French, Turkish

INTERMEDIATE:

Spanish, Catalan

LINKS

Github:// [LieutenantChips](#)
LinkedIn:// [Volga C. Karakus](#)
Facebook:// [Volga Can Karakus](#)
Flickr:// [Volga C. Karakus](#)

WORK & COURSEWORK

Research Asst.

Teaching Asst CS431 Embedded Systems
Course Asst TAM212 Theo. App. Mech.
Dynamics

UNDERGRADUATE

Android App Dev
Web Dev
Cloud Computing
Data Analytics
Data Visualization
Embedded & Operating Systems
Database
Robotics
Computer Graphics
3D Graphical Modeling
Robot Control and Feedback
Artificial Intelligence
Functional Programming
Mechanics

SKILLS

PROGRAMMING

Over 4 years:

Java • HTML • JavaScript • Python
Android • XML • CSS • MySQL

Between 1 to 3 years:

C • C++ • AWS • Google API
D3JS • Flask • S3 • EC2 • DJI
Unity • GIS • JSON • JQuery
• DNS • OpenCV • Haskell • Route53

ACTIVITIES

Rock-climbing • Bicycling • Photography

WORK

DASLAB | DYNAMIC WEBSITE

Summer 2018 | Illinois, USA

- Dynamic website served with Flask communicating with AWS for S3 buckets as well as SQL local database. Interactive upload and delete buttons to the server as well as downloading multiple zipped files.

DASLAB | SOFTWARE ENGINEER

Summer 2018 | Illinois, USA

- Back-end and front-end developer for multiple dynamic websites and android applications using cloud services such as AWS, as well as creating software to control, analyze and display data gathered from field robots and spectral cameras.

DASLAB | MONKEYRUNNER - ANDROID APP SIMULATION

Summer 2018 | Illinois, USA

- Testing and debugging android applications for their user interface and gathering data corruption. Scripting and automating location finding and chained executions.
- An other website that lets you create, edit or remove sections from it's own content, with a user friendly interface. These sections are saved and populated from a MySQL database using Flask.

GUVEN YAZILIM | SOFTWARE ENGINEER

Summer 2015 & 2016 | Istanbul, Turkey

- Back-end and front-end developer for android applications that gathered and stored data into MySQL in an organized and logical way. As well as displaying data gathered from weather APIs in a dynamic website.

OFF-TIME PROJECTS AND RESEARCH

JOHN DEERE PROJECT | SOFTWARE ENGINEER FOR AUTOMATION OF THE TANGO LAWNMOWER

Spring 2018 | Illinois, USA

- Created android application that communicates with Wi-Fi module placed in the Tango that acts as a controller, embedded and programmed on my own.
- Designed three different 3D models made by 3D printing and CAD Creo, done with 4 other students.
- Multiple presentations done in front of multiple John Deere engineers.

RESEARCH | PYTHON INTERPRETER

Spring 2018 | UIUC

- Creating multiple EC2 instances where users will have an interactive computational environment in which you can combine code execution, rich text, mathematics, plots and rich media.
- Application used by 100 students in Australia.

OFF-TIME PROJECT | ROBOT MODELING

Spring 2018

- Interactive website that shows the math and logic behind robot modeling and lets the users give their answers and check their correctness.

RESEARCH | DJI DRONE AUTOMATION AND DATA GATHERING

Spring 2017 | UIUC

- Android App that lets the user select an area from Google Maps. The user can then chose to deploy an automated DJI-Drone which takes pictures and saves in an user personalized AWS S3 Bucket.