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LANGUAGES

Advanced with

Swift • Python
HTML5 • CSS
JavaScript • C

Familiar with

C++ • Obj-C • Go

TECHNOLOGIES

Angular • AWS • Azure
ElasticSearch • Git
InfluxDB • MongoDB
Node.JS • OpenCV
Scikit-learn • SQL

EXPERTISE

iOS Development
Image Processing
Machine Learning
Web Development

RELEVANT COURSES

Artificial Intelligence
Data Structures and
Algorithms
Systems Programming
Object Oriented
Programming
Programming Language
Concepts

Luke Porupski

EDUCATION

The Pennsylvania State University

University Park, PA

B.S. in Computer Science, May 2018

GPA: 3.56

EXPERIENCE

Undergraduate Research - Developer

Fall 2016 - Present

Emotion Guide iOS Application

- Leveraged OpenCV and svm modeling to analyze perceived emotional context of images using a trained classifier
- Developed methods to allow for location recommendations based on positivity and negativity of nearby regions
- Utilized Swift and Objective-C to develop iOS application and performed in-app user study for effectiveness determination
- Implemented CloudKit & MapKit technologies that allowed for more efficient data gathering and storage of 100k files

Capital One - Software Engineer Internship

June 2017 - Aug 2017

Influx Connect web application

- Developed web application that allows for scheduled large-scale data migrations between ElasticSearch and InfluxDB
- Created efficient backend in Go allowing for high rates of data transfer
- Interfaced with AWS EC2 and RDS to allow for hosting and data storage
- Developed fluid, intuitive UI with HTML5, CSS, and Javascript

Siemens PLM - Software Engineer Internship

May 2016 - Aug 2016

JT2Go Windows 10 Application

- Implemented full redesign of home screen interface which improved usability & appearance
- Utilized C# and XAML for UI and backend development

JT2Go Mobile Application

- Implemented geofencing feature allowing for location based item tracking
- Leveraged cordova framework along with HTML5, CSS, and AngularJS for cross-platform development

Penn State Lunar Lion Team Member

Feb 2015 - May 2016

- Utilized C++ and Labview to develop software for simulating and monitoring sensor inputs for system testing
- Assisted in development of health monitoring software used for displaying live sensor readings