Jason R. Parham

Ph.D. STUDENT · COMPUTER VISION

2-101 Waters View Cr, Cohoes, NY 12047

□ (714) 814-5305 | ■ parhaj@rpi.edu | □ bluemellophone | □ parhaj



Troy, NY

Troy, NY

Aug 2012 - PRESENT

Aug 2012 - Dec 2015

Aug 2008 - May 2012

Aug 2013 - PRESENT

Education

Rensselaer Polytechnic Institute

DOCTOR OF PHILOSOPHY · COMPUTER SCIENCE · COMPUTER VISION

ON OF THE COOK OF THE COMMON TO THE COMMON T

- · Advised by Dr. Charles V. Stewart, Computer Science Department Chair
- Anticipated Graduation: May 2018

· Cumulative GPA: 4.0

Rensselaer Polytechnic Institute

MASTER OF SCIENCE · COMPUTER SCIENCE · COMPUTER VISION

• Master's Thesis: "Photographic Censusing of Zebra and Giraffe in the Nairobi National Park"

Pepperdine University

Malibu, CA

BACHELOR OF SCIENCE · COMPUTER SCIENCE / MATHEMATICS

Projects

IBEIS Computer Vision System / Wildbook Image Analysis Plug-in

Python/C/C++/SQLite Lasagne/Theano/CUDA

GITHUB.COM/WILDBOOKORG/IBEIS

• A stand-alone image and algorithm manager for computer vision image processing; integrates with Wildbook wildlife system via REST API

Prototypes used at three conservancies in Kenya and during the GZGC (Great Zebra and Giraffe Count) and GGR (Great Grevy's Rally) censusing rallies

Intercheck Python

GITHUB.COM/BLUEMELLOPHONE/INTERCHECK

Feb 2015 - PRESENT

• An automated SpeedTest logger and graphing web interface for monitoring Internet connectivity; designed for use on Raspberry Pi 3

Submitty · Rensselaer Center for Open Source Software (RCOS)

PHP/HTML/CSS/MySQL JavaScript/jQuery/AJAX

GITHUB.COM/SUBMITTY/SUBMITTY

• A web-based homework submission system with automated code execution, auto-grading, and rubric-based TA grading interface

- Aweb based nomework submission system with automated code exceution, auto grading, and rubne based in grading menae

Cryptographically Secure E-Voting Protocol

Mar 2013 - May 2013

Pvthon

C++

Sep 2012 - PRESENT

GITHUB.COM/BLUEMELLOPHONE/JDKK-PROTOCOL

· A scalable, secure e-voting protocol that is hardened against a malicious election judge and colluding voters

Cryptographically Secure ATM Communication Protocol

Sep 2012 - Nov 2012

GITHUB.COM/BLUEMELLOPHONE/JTM-PROTOCOL

· A secure communication protocol for use between a bank and ATM that uses asymmetric and symmetric encryption

Experience

Kitware

COMPUTER VISION RESEARCH INTERN

Clifton Park, NY May 2015 - PRESENT

• Designed and developed deep learning Python library (KWCNN) using Lasagne / Theano with automated network definition and model training

Designed and developed deep tearning flythorn totally (twelvery) using Easagne? The and with automated network definition and model training
 Designed and developed aerial change detection system using supervised fully-convolutional neural networks and unsupervised auto-encoders

Rensselaer Polytechnic Institute

Troy, NY

GRADUATE TEACHING ASSISTANT

Aug 2012 - PRESENT

- Head / administrative TA for introductory Computer Science I (Python) and graduate-level Computer Vision courses; experience as a lab and office
 hour instructor, managing web-based grading system (Submitty) and automated grade distribution
- Experience managing a team of 11 TAs, 21 sections, and over 650 concurrent students across 6 semesters and multiple professors

Self-Employed Cohoes, NY

FULL STACK WEB DEVELOPER Aug 2012 - PRESENT

• Designed and developed customized, web-based applications, including experience with WordPress CMS

January 5, 2017 Jason R. Parham · Résumé