

Lazaro Herrera

lazherrera@gmail.com | 305.793.0966

EDUCATION

FLORIDA INT. UNIVERSITY

BS IN COMPUTER SCIENCE

Miami, Florida

College of Engineering

LINKS

Github:// [AtheistOfFail](#)

LinkedIn:// [lazaroherreira](#)

COURSEWORK

UNDERGRADUATE

Senior Project

Parallel Computing

Operating Systems

Software Engineering

Software Engineering II

Software Testing

Database Theory

PROJECTS

Semantic-Web Based Intelligence

Inference Engine

Image Scaling using GPU Processing

Java Tomcat Social Network Development and Testing

Java Software Testing using Rational Func. Tester and JUnit

PERSONAL PROJECTS

Heroku:// [YoutubeToEmotion](#)

PUBLICATIONS

RESEARCH PAPERS

VIABILITY OF INDOOR ROBOTIC AIR AQUARIUMS

Authors: Lazaro Herrera, Francisco J

Peleato Sosa, Jong-Hoon Kim

FCRAR Proceedings 2012 - May 2012

TECHNOLOGIES

PAST TECHNOLOGIES

Java • Python • Javascript/NodeJS

Ruby on Rails • PHP • PhoneGap

SQL • MySQL • SQLite • DB2

Redis • Blackberry 10 • iOS • Android

REST Services • JSON • XML

JUnit • TestNG • Selenium • Robot

Maven • Ant • JIRA • SVN • Git • Perforce

EXPERIENCE

BITSTOP.CO | SOFTWARE ENGINEER

July 2015 - Present | Miami, Florida

Core Technologies: Ruby on Rails/NodeJS/Android/Bitcoin/Computer Vision

- Redesigned Bitstop.co website using Javascript, JQuery and Ruby on Rails.
- Optimized ID PDF-417 identification using Computer Vision techniques.
- Wrote MRZ-Reader for US/Foreign Passports in Javascript
- Created Bitstop Android wallet using Java and Bitcoin.
- Wrote Rails REST endpoints for integrating Synapse API bank payments.
- Wrote frontend for bank payments on top of Rails REST endpoints.
- Wrote NodeJS/Rails remote control system for command-control of hardware.

FOCUS TECHNOLOGIES | SOFTWARE ENGINEER I

December 2013 – July 2015 | Sunrise, Florida

Core Technologies: Java/Javascript/JQuery/Selenium/Ruby/Redis/REST

- Increased smoke test accuracy to 99 percent reducing execution time to 30 minutes.
- Created keyword-driven bot to execute tests over Hipchat.
- Created REST-service based duplication system to speed up testing.
- Created simpler REST-service based duplication system for speeding up testing using Chrome plugin.
- Created WYSIWYG system for verifying PDF output in legally binding output.
- Created database integrity tooling for snapshotting and detecting changes.
- Create redis database tooling for verifying internal structure and values.

RIM - BLACKBERRY | IOT AUTOMATION DEVELOPER

Aug 2013 – Dec 2013 | Sunrise, Florida

Core Technologies: Python/Robot Framework

- Wrote IOT Wifi Testing Suite to test wifi chip firmware.
- Integrated initial IOT Wifi Testing Suite with automated build system
- Wrote wifi handover test suite for dual signal balancer.

GAME DEVELOPERS GUILD | SOFTWARE DEVELOPER

Dec 2011 – Aug 2013 | Miami, Florida

Core Technologies: Java/Unity C#/Android/PhoneGap

- Hosted Global Game Jam for the years of 2012 through 2015.
- Winners of EdHack Hackathon 2014 "Beepo" using Unity C#.
- Winners of ATT Mobile App Hackathon 2012 "Spheromon" using Unity C#.
- Participated in developer events creating 42 mobile apps for Blackberry/Android mobile devices.

RESEARCH

FLORIDA INT. UNIVERSITY - DISCOVERY LAB | HEAD STUDENT

RESEARCHER / SOFTWARE DEVELOPER

Jan 2011 – Aug 2013 | Miami, Florida

Core Technologies: Arduino/C#/C

- Created autonomous flying vehicles with vehicle avoidance using short-range sonar.
- Wrote controller for 300 hundred pound robot that utilized Kinect, Bluetooth and Arduino to mirror human movements.