Lazaro Herrera

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LINKS

LinkedIn: **/lazaroherrera**
Github: **/WriteCodeEveryday**
Personal Site: **/PersonalSite**

TECHNOLOGIES

PAST TECHNOLOGIES

Bitcoin • Blockchain Technology
Java • Python • Javascript/NodeJS
ReactJS • Rails/Ruby • PHP
SQL • MySQL • SQLite • DB2
Redis • ActionCable/Websocket
BB 10 • iOS • Android • PhoneGap
REST Services • JSON • XML • JWT
JUnit • TestNG • Selenium • Robot
Maven • Ant • JIRA • SVN • Git • Perforce

EDUCATION

FLORIDA INT. UNIVERSITY

BS in Computer Science
Miami, Florida
College of Engineering

MS in Cybersecurity
Miami, Florida
College of Engineering

COURSES

Senior Project I/II • Database Theory
Operating Systems • Parallel Computing
Software Testing/Engineering I/II
Secure Application Programming
Advanced Malware Reverse Engineering
Advanced Ethical Hacking
Advanced Digital Forensics

PROJECTS

Semantic-Web Intel. Inference Engine
CUDA GPU SuperResolution
Java Software Testing with JUnit
Tomcat Social Network
Development/Testing

CERTIFICATIONS

Six Sigma White

PUBLICATIONS

RESEARCH PAPERS

Indoor Robotic Air Aquariums
Authors: Herrera, Peleato Sosa, Dr Kim
FCRAR Proceedings 2012 - May 2012

EXPERIENCE

BITSTOP.CO | Senior Software Engineer / CTO

January 2016 - Present | Miami, Florida
Core Technologies: Ruby/Rails/Javascript/Bitcoin/PGP/ActionCable

- Wrote BitcoinD webscraper for extracting third party ATM transactions.
- Rewrote internal backend application as Software as a Service.
- Wrote 2FA solution using email-based PGP and SMS-based auth codes.
- Wrote websocket-capable public pricing API with ActionCable.
- Wrote backend solution for remittance application to Mexico.
- Wrote ELO ranking algorithm for classifying customers.
- Wrote modular Rails ATM solution for Gen-Mega / Kiosk ATMs.

BITSTOP.CO | Software Engineer

July 2015 - January 2016 | 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 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

- Increased smoke test accuracy to 99 percent and reduced execution time.
- Created keyword-driven bot to execute tests over Hipchat.
- Created Chrome REST-service based duplication system for testing.
- Created WYSIWYG system for verifying PDF output in legally binding output.
- Created SQL integrity tooling for snapshots and change detection.
- 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

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 mobile apps for Blackberry/Android.

RESEARCH

FLORIDA INT. UNIVERSITY - DISCOVERY LAB | Head Student Researcher / Software Developer

Jan 2011 – Aug 2013 | Miami, Florida
Core Technologies: Arduino/C#/C

- Created UAV with vehicle avoidance using short-range sonar.
- Created software for human size robot that utilized Kinect and ArduinoBT.