

Alex Dykstra

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EXPERIENCE

Automated Logic Corporation, Firmware Automation Engineer Kennesaw, GA [June 2016 :]

- Created a firmware automation deployment environment consisting of a distributed system with over 90 devices while leveraging Django's web framework and Redis as a message broker.
- Utilized Django's template language, HTML5 and javascript to create an interactive frontend with many data visualizations to represent test coverage.
- Designed and developed beautiful, easy-to-use application to ease the bottleneck in TCP/UDP communication protocol testing - developed with portable, scalable APIs.
- Trained firmware and senior firmware QA engineers in automation practices while developing a shared framework for automating current manual tests.
- Worked in an agile environment with fast deadlines while also taking part in Lean production principles that apply to software development.

Lydia Circle Ministries (nonprofit), Full Stack Web Developer Acworth, GA [June 2016 :]

- Developed and deployed Lydia Circle's first website (www.lydiacircleministries.org) using Python's Flask micro framework combined with modern web technologies (js/css/html)
- Worked to implement Braintree's API (PayPal) into site for ecommerce.
- Created an email API for automatic delivery of receipts, notifications, and web monitoring

Automated Logic Corporation, Firmware Automation Engineer Intern [January 2015 : May 2016]

- Began the development of baseline testing and bug troubleshooting while working directly with firmware developers on the Next Generation product line.
- Organized and executed firmware automation workshops teaching senior and associate testers current automation techniques and programming principles.
- Worked as an automation architect, assisted in creating ALC's first automation framework using TestComplete.
- Conducted BACnet/IP testing on ALC hardware using a Python API to create and decode packets that were sent/received before the hardware was officially commissioned.
- Used multiple Python modules to create custom automated tests resulting in more precise testing and an increase in capacity.

Restaurant Technology Incorporated, Quality Assurance Intern Marietta, GA [June 2014 : January 2015]

- Conducted detailed hands on manual testing of RTI's largest application, *RTIconnect*
- Repaired and condensed past automation broken from new features.

EDUCATION

Kennesaw State University [August 2012 : May 2016] B.S. in computer science GPA 3.0

Georgia Institute of Technology [August 2017 :] M.S. in computer science

PROGRAMMING LANGUAGES

Python (Django, Flask), Java, Javascript (nodejs, electron), HTML (Django Template Language and Jinja2)