

# MILES OLDENBURG

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## EDUCATION

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### Duke University

December 2015

*M.S. in Electrical & Computer Engineering*

*Durham, NC*

Coursework: Information theory, machine learning, network architecture and security, environmental sensing, computer vision, distributed systems, robotics, and parallel computing.

- Planning and control systems of Baxter Research Robot for ICRA 2015 Amazon Picking Challenge competition
- GPU acceleration of a multi-objective genetic algorithm
- Dynamic image projection using Microsoft Kinect
- Measurement and analysis of NTP Reflection DDoS attacks

### Skills

MATLAB, C, Python, C++, Java, Node.js

### The Ohio State University

July 2012

*B.S. in Computer & Information Science*

*Columbus, OH*

Coursework: Systems engineering, database systems, artificial intelligence, computer graphics, architecture, algorithms, and information systems.

### Skills

Java, C, C++

## EXPERIENCE

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### Cisco Systems, Inc.

July 2012 - Present

*Engineer*

*Research Triangle Park, NC*

I work on a network security cloud product that analyzes customer network data to provide insights into security vulnerabilities. This work spans different domains from virtual appliances to web applications. Previously I worked in global operations designing applications that provide operations visibility and metrics.

- Built virtual appliance creation and delivery service
- Responsible for design and development of web and mobile applications for operations
- Manage global vendor teams for product development and support
- Design automated front and back-end build, test, and deployment processes
- Created application to analyze and forecast reporting structures and provide personnel metrics to assist executives making organizational decisions
- Created JavaScript library for collecting user feedback on services
- Maintain an internal Bootstrap fork with custom components that adhered to company UI requirements used by many teams
- Created application to gather and display usage metrics about other applications to assist in resource assignment and retirement of the applications
- Mentor interns and new hires and manage intern projects

### Skills

AWS, CSS(*LESS, Bootstrap*), Docker(Docker Compose), Gherkin, HTML5, Java(*Maven, Apache Struts, Spring, Hibernate, Dropwizard, JUnit, Mockito*), JavaScript(jQuery, Node.js, Backbone, Grunt, Gulp, Webpack, Require.js, Mocha, Chai, Cucumber), MySQL, NGINX, Oracle, RAML, Version Control(*git, svn, cvs, Gerrit, Stash*), Continuous Integration(Jenkins), Apache Cordova/PhoneGap

I worked for the college of Arts and Sciences designing and maintaining web sites and applications for departments, centers, and faculty.

- Created error reporting and SQL injection reporting system
- Created applications for departmental events, directories, news, scheduling, and course listings
- Created a custom lightweight ColdFusion MVC framework for internal applications
- Created accessible web sites for impaired users and sites that adhere to government and validation standards

### **Skills**

ColdFusion, MSSQL, PHP (*Drupal*), *MySQL*, *HTML*, *CSS*, *JavaScript*

## **TECHNICAL STRENGTHS**

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<b>Computer Languages</b>	Java, C, C++, JavaScript, Python, PHP, ColdFusion
<b>Databases</b>	Oracle, MySQL, MongoDB
<b>Tools</b>	Git, SVN, Jenkins, MATLAB, Linux/UNIX, Docker, RAML, Gherkin

## **CERTIFICATIONS AND TRAINING**

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Professional Scrum Master I Scrum.org, 2012	Big Data: Hadoop Cloudera, 2013
ITIL IT Service Management PEOPLECERT, 2013	M101J: MongoDB for Java Developers 10gen, 2013
Security Green Belt Cisco Systems, Inc., 2017	ITIL Foundations Pink Elephant, 2013
	Building Hybrid Apps With PhoneGap Jonathan Stark, 2013
	Scrum Boot Camp Construx, 2012
	Advanced Javascript Marakana, 2012
	Introductory and Advanced ColdFusion Training Webucator, 2008