

# Matthew Stafford

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Software 'DevOps' Associate at Lockheed Martin. Part of a team responsible for the cultivation, deployment, and hosting of modern CI/CD tools. Provide SaaS to other teams to modernize software life-cycle practices. Also, solely responsible for the development of Test Automation tools including Selenium and TestArchitect. Previously spent three years researching smartphone applications for rehabilitative

## Education

- College: University at Buffalo (SUNY)
- Major: Computer Science
- Enrolled: 2014-2018
- Degree: Computer Science B.S.
- GPA: 3.545
- Relevant Classes: Java Intro I&II, Data Structures, Theory of Computation, Introduction to Machine Learning, Algorithms, Intro to JavaScript, Software Engineering(Agile programming intro), Intro to Cyber Security, Real Time Embedded Systems

## Work Experience

- **Lockheed Martin** **Space Systems**  
*July 2018–Present*  
*Software 'DevOps' Engineer*
  - Research and Develop Rancher infrastructure for scalable on-prem Kubernetes cluster.
  - Configure Jenkins pipelines with Gitlab, static analysis, coverage reports, unit testing, and artifact repositories.
  - Manage OpenShift templates and developing RHEL based docker images.
  - Research and create automated Selenium unit tests suite.
  - Research, develop, and providing training for TestArchitect based automated testing.
- **The Embedded Sensing and Computing (ESC) Lab** **University at Buffalo**  
*August 2014–Present*  
*Student Researcher*
  - Developed a 'Stroke Rehabilitation System' that uses a smartphone, smart watch, and 3-D printed cup. Provides stroke sufferers with a rehabilitation tool that tracks and provides feedback to users during their exercises.
  - Designed the system top down from user interface, to real time data analysis, cloud storage solutions, and large scale data analysis of user data.
  - Developed 'Flappy Breath', an Android application that uses a patient's breathing as a game interface. Designed as a rehabilitation system for sufferers of Chronic Obstructive Pulmonary Disease (COPD).
- **Summer REU: Security of Mobile Devices and Wireless Networks** **New York Institute of Technology**  
*Summer 2017*  
*Research Assistant*
  - Developed and Authored 'TETRIS: Smartphone-to-Smartphone Screen-Based Visible Light Communication'
  - Responsibilities included developing Android Application, crafting research paper, and data collection.
  - Co-Authored 'Indoor Localization through Visible Light Characterization using Front-Facing Smartphone Camera'
- **The Fisher-Price Early Childhood Research** **University at Buffalo**  
*September 2016–June 2017*  
*Student Assistant*
  - Developing an interactive book for children that uses an Android tablet to display pages, play narration, and colorfully animate the story.
  - Tracks child's gaze and touches on tablet's screen.
  - Maps data into a graphical interface for clearer understanding of data.

## Awards

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- UBHack Nights Sponsored by Google - 'Best Design' and 'Google's Best Use of Google Cloud API'
- Major League Hacking Season 18 University at Buffalo '1st Place' and 'Best Hack that Improves or Works to Preserve the Environment'
- First place ribbon at CSE 50th Anniversary Celebration presenting 'Stroke Rehab' poster - September 30th, 2016 and October 3, 2017

## Published Papers

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- 'TETRIS: Smartphone-to-Smartphone Screen-Based Visible Light Communication'
- 'Flappy Breath'
- 'Indoor localization through visible light characterization using Front-Facing smartphone camera'

## Projects

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- Smart Coffee Maker
  - Augmented inexpensive coffee maker with temperature, water level, an automatic shutoff sensors
  - Flask-Based web application to display coffee's brewing analytics
  - Twitter enabled activation
- Smartphone Enabled Scheduler
  - Developed smartphone based scheduling application
  - Uses Google's Calendar API, Node.js, Mongo DB, and Java Spring to cross reference user's calendar data.

## Technical and Personal skills

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- Programming Languages:
  - Proficient: Java, XML, Android Studio Development, Real Time data analysis
  - Familiar: Helm, Rancher, Kubernetes, Ansible, Jenkins, Openstack, AWS S3, AWS Cognito, Python, Git, GitHub, JavaScript, Node.js
- General Skills: History of professional presentations (Poster & Sideshow), Experienced in team based research projects, Actively communicates project to both technical and non-technical clients