

# István Steven Gates

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<b>OBJECTIVE</b>	Seeking summer position to increase my rate of learning and apply Mathematics/CS to solve problems.		
<b>EDUCATION</b>	<b>The University of Akron, Akron, Ohio, USA</b>		
	<ul style="list-style-type: none"><li>▪ Double Major (Bachelors) in Computer Science and Applied Mathematics</li><li>• Spring 2018 expected graduation date</li><li>• GPA: 3.20</li></ul>		Aug 2014
<b>WORK EXPERIENCE</b>	<b>Complex Engineering Systems Lab (CESL), The University of Akron</b>		
	<ul style="list-style-type: none"><li>▪ Undergraduate Research Student</li><li>• Supervisor: Dr Shivakumar Sastry</li><li>• Full stack development for real time exercise error recognition using Kinect camera.</li><li>• Created process flow modeller to allow domain experts to conduct 'Motivational Interviewing'</li><li>• Created abstraction layer for open source project Gephi, a graph-network analysis tool</li></ul>		May 2015 – Present
<b>AWARDS</b>	<ul style="list-style-type: none"><li>▪ Grand Prize Winner, Knurld Online, KnuVerse</li><li>• Best Android/iOS. 3 month global online competition</li><li>▪ Prize Winner, AngelHacks, Platform 84.51</li><li>• Best Machine Learning Project, &amp; Largest Impact. A competition geared towards Jr/Sr devs.</li><li>▪ Community Prize Winner, Tribe Hackathon, Cleveland Indians</li><li>• Most Creative. Hosted by Cleveland Indians &amp; Progressive Insurance</li><li>▪ Grand Prize Winner, UncommonHacks, University of Chicago</li><li>• Best Overall &amp; Best Security. Out of 260 participants</li><li>▪ Prize Winner, HackCWRU, Case Western Reserve University</li><li>• Best Improvement on Undergrad Life. Out of 460 total participants</li><li>▪ Grand Prize Winner, Fashion Tech Hackathon, Kent, Ohio</li><li>• Best Creation of New Technology. Interdisciplinary projects w/ Fashion Design majors</li></ul>		
			Jul 2016
			Jun 2016
			May 2016
			Apr 2016
			Feb 2016
			Jan 2016
<b>NOTEABLE PROJECTS</b>	<ul style="list-style-type: none"><li>▪ Go Capture</li><li>• Programmed using Java, OpenCV</li><li>• Point camera at a Go board, score the game in real time</li><li>• Data is communicated to server and the game can be continued online</li><li>• Calculate and overlay current scores onto the board</li><li>• Use linear filtering &amp; Hough Line Transform to analyze camera stream</li><li>• Detect grid lines &amp; stones to create internal data structure</li><li>▪ Twitch-Scraping</li><li>• Programmed using Python, MongoDB and MySQL</li><li>• "Big Data" infrastructure to collect message data from streaming platform twitch.tv</li><li>• Platform collects ~7 million messages a day and stores in 5th-normal form database</li><li>• Supports real-time analysis of incoming data stream as well as static analysis</li><li>• Created data visualizations using Python's matplotlib &amp; hosting service plot.ly</li></ul>		
			Oct 2016
			Jul 2016
<b>CAMPUS ACTIVITIES</b>	<b>IEEE Student Chapter, The University of Akron</b>		
	<ul style="list-style-type: none"><li>▪ President</li><li>• Restored student chapter</li><li>• Increased membership from 8 to 50 students</li><li>• Secured sponsorship from The University of Akron Honors College</li><li>• Created and managing IEEE-funded project design team (10 students)</li><li>• Increased number of competitions attended per year from 1 to 5</li><li>• Led programming workshops - taught C and Git/GitHub</li><li>▪ Secretary</li><li>• Planned all student meetings</li><li>• Scheduled speakers and organized events</li></ul>		May 2015 – Present
			Nov 2014 – May 2015