

# István Steven Gates

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## EDUCATION

### The University of Akron, Akron, Ohio, USA

- Double Major (Bachelors) in Computer Science and Applied Mathematics
  - Spring 2018 expected graduation date
  - GPA: 3.20

Aug 2014 - Present

## WORK EXPERIENCE

### Applied Math Research Lab (AMRL), The University of Akron

- Undergraduate Research Assistant
  - Funded by NSF grant to research carbon nanostructures in graphene sheets
  - Created mathematical models to explore molecular behavior
  - Created iterative schemes to visualize electron behavior

Oct 2016 – Present

### stohio, Stow, Ohio

- Founder
  - Founded open source community
  - Conceptualized multiple products and created teams for each project
  - Led 3 projects to finish, resulting in 4 awards

May 2016 – Present

### Complex Engineering Systems Lab (CESL), The University of Akron

- Undergraduate Research Assistant
  - Software development role (Java) to design, create and refactor systems
  - Designed database to support public API for dataset access while maintaining user anonymity
  - Created process flow modeller, allows domain experts to create a 'Motivational Interviewing' experience
  - Refactored code base written by graduate students, implemented proper software design

May 2016 – Dec 2016

## INDEPENDENT PROJECTS

- Go Capture
  - Use Android application to take picture of a Go board and upload to server for processing
  - Hough Line Transform to detect grid lines, and Hough Circle Transform to detect stones
  - Generate SGF file and create URL to allow continuation of game online
- Twitch-Scraping
  - "Big Data" infrastructure to collect message data from streaming platform twitch.tv
  - Platform collects ~7 million messages a day and stores in 4th-normal form database
  - Supports real-time analysis of incoming data stream as well as static analysis
  - Created data visualizations using Python's matplotlib & hosting service plot.ly

Oct 2016

Jul 2016

## AWARDS

- Grand Prize Winner, Knurld Online, KnuVerse
  - Best Android/iOS. 3 month global online competition
- Prize Winner, AngelHacks, Platform 84.51
  - Best Machine Learning Project & Largest Impact. A competition geared towards Jr/Sr devs
- Grand Prize Winner, UncommonHacks, University of Chicago
  - Best Overall & Best Security. By unanimous decision
- Grand Prize Winner, Fashion Tech Hackathon, Kent, Ohio
  - Best Creation of New Technology. Interdisciplinary project w/ Fashion Design majors

Jul 2016

Jun 2016

Apr 2016

Jan 2016

## SKILLS

- C++
- Python
- Java
- Git
- Vim
- SQL

## CAMPUS ACTIVITIES

### HAkron, The University of Akron

- President
  - Co-founded first Hacker's Society on campus
  - Increased membership from 4 to 30 students
  - Secured partnership with EXL Center & The Bit Factory
  - Assembled team to create first MLH-sponsored hackathon in Akron
  - Taught skills to students, resulting in 3 top 5 placements and overall winner at Kent Hack Enough 2016
  - Engaged distinguished alumni to collaborate with student group

Aug 2016 – Present

### IEEE Student Chapter, The University of Akron

- President
  - Restored student chapter
  - Increased membership from 20 to 40 students
  - Secured sponsorship from The University of Akron Honors College
  - Created and managing IEEE-funded project design team (10 students)
  - Increased number of competitions attended per year from 1 to 5
  - Led programming workshops - taught C and Git/GitHub

May 2015 – Present