István Steven Gates

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EDUCATION

The University of Akron, Akron, Ohio, USA

- Double Major (Bachelors) in Computer Science and Applied Mathematics — Aug 2014
  - Spring 2018 expected graduation date
  - GPA: 3.20

WORK EXPERIENCE

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

- Undergraduate Research Assistant — May 2015 – Present
  - Supervisor: Dr Shivakumar Sastry
  - Full stack development for real time exercise error recognition system using Kinect camera.
  - Designed database to support public API for dataset while maintaining user anonymity
  - Created process flow modeller to allow domain experts to design a 'Motivational Interviewing' experience
  - Created abstraction layer for open source project Gephi, a graph-network analysis tool
  - Designed & built backend to support user registration for pilot study

AWARDS

- Grand Prize Winner, Knurld Online, KnuVerse — Jul 2016
  - Best Android/iOS. 3 month global online competition
- Prize Winner, AngelHacks, Platform 84.51 — Jun 2016
  - Best Machine Learning Project, & Largest Impact. A competition geared towards Jr/Sr devs
- Grand Prize Winner, UncommonHacks, University of Chicago — Apr 2016
  - Best Overall & Best Security. Out of 260 participants
- Grand Prize Winner, Fashion Tech Hackathon, Kent, Ohio — Jan 2016
  - Best Creation of New Technology. Interdisciplinary projects w/ Fashion Design majors

NOTEABLE PROJECTS

- Go Capture — Oct 2016
  - Programmed using Python, Java
  - Use Android application to take picture of a Go board and upload to server for processing
  - Server returns photo of the scored board as well as URL to continue playing online
  - Hough Line Transform to detect grid lines, and Hough Circle Transform to detect stones
  - Create internal data structure to generate SGF file
- Twitch-Scraping — Jul 2016
  - Programmed using Python and MySQL
  - "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

CAMPUS ACTIVITIES

IEEE Student Chapter, The University of Akron

- President — May 2015 – Present
  - 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
- Secretary — Nov 2014 – May 2015
  - Increased membership from 6 to 20 students
  - Planned all student meetings
  - Scheduled speakers and organized events

HAkron, The University of Akron

- President — Aug 2016 – Present
  - Co-founded first Hacker's Society on campus
  - Increased membership from 4 to 30 students
  - Assembled team to create first MLH-sponsored hackathon in Akron
  - Secured sponsorship from EXL Center & Tremco Inc.
  - 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
  - Led programming workshops - taught Git/GitHub, Vim, System Design, and Web Development

SKILLS

C++	Java	Vim
Python	Git	SQL