

# James Roeder

SENIOR SOFTWARE ENGINEER · SYSTEMS ARCHITECT

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## Experience

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### Asurint

Cleveland, Ohio

SENIOR SOFTWARE ENGINEER

Jan 2019 - Present

- Designed systems for automatically gathering data from many court websites.
- Led and delegated tasks to a team of near-shore workers.
- Wrote code with an emphasis on high quality, maintainability, and performance.

### Vertical Knowledge

Chagrin Falls, Ohio

SENIOR SOFTWARE ENGINEER

Nov 2016 - Dec 2018

- Architected and implemented portions of a system collecting large volumes of publicly available information.
- Mentored junior developers.
- Developed tutorials and documentation for client-facing APIs.
- Maintained legacy system before transitioning users to its replacement.

### Self-employed

Mentor, Ohio

SOFTWARE DEVELOPER AND TECHNOLOGY CONSULTANT

May 2001 - Nov 2016

- Developed full-stack web applications as a consultant for Offerpop, Color Splash Studio, University of Michigan, and others.
- Built custom video and networking solutions on embedded systems, including Raspberry Pi and Arduino devices.
- Consistently completed projects within estimated timeframes.
- Designed and programmed interactive Konfabulator Widgets for various clients and general public using JavaScript.
- Recorded and edited professional videos for school and community events.
- Created WordPress plugins and themes.

### We Can Code IT

Cleveland, Ohio

SOFTWARE DEVELOPMENT INSTRUCTOR

May 2016 - Oct 2016

- Addressed needs of a diverse student population and adapted teaching to meet various learning styles.
- Rebuilt curriculum to meet accelerated goals based upon employer feedback.
- Acted as product owner and mentor to guide students through building complex final projects following Scrum methodology.

### The Iron Yard

Durham, North Carolina

DATA SCIENCE INSTRUCTOR AND ONLINE CONTENT AUTHOR

Jun 2015 - Apr 2016

- Taught intensive 12-week full-time “boot camp” courses in web development and data science using Python, Django, and Pandas.
- Planned and led crash course workshops introducing new developers to the joy of programming.
- Mentored and managed students through the planning and execution of marketable final projects.
- Created online lessons covering a wide variety of topics relating to web development.

### Hathaway Brown School

Shaker Heights, Ohio

DIRECTOR OF CENTER FOR TECHNOLOGY & INVENTION, UPPER SCHOOL TECHNOLOGY DEPARTMENT CHAIR, TEACHER

Aug 2008 - Jun 2015

- Oversaw and mentored programs encouraging and recognizing students to pursue engineering, including a high school robotics team.
- Laid the groundwork for the creation of a schoolwide digital fabrication lab, securing funding and administrative support.
- Used low-power systems such as Raspberry Pi and Arduino in applications ranging from computer vision to hacking remote control cars.
- Selected and guided students in the pursuit of intense creative projects, including designing a golf course and creating a video game.
- Created and taught computer science classes for 5th-12th grade girls ranging from introductory to Post-Advanced Placement.
- Served as a key member of the Technology Review Committee, spearheading campus-wide wifi and a 1:1 program for students.
- Provided technical support for faculty and staff while promoting more technology independence via workshops and user groups.
- Presented at educational technology conferences on using the Python programming language as part of an introductory course.

### Manatron

Portage, Michigan

COMPUTER PROGRAMMER I

Jun 2005 - Jan 2006

- Developed, profiled, and optimized .NET web applications.
- Enhanced developer tools for automated project building.
- Transitioned a large codebase from .NET 1.1 to .NET 2.0.
- Identified and fixed errors in existing code.

## Education

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### Georgia Institute of Technology

Atlanta, Georgia

ONLINE MASTER OF SCIENCE IN COMPUTER SCIENCE

2014 - 2016

- 3.72 GPA
- Coursework focused on artificial intelligence, robotics, and computer vision.

### University of Michigan

Ann Arbor, Michigan

BACHELOR OF SCIENCE ENGINEERING IN COMPUTER SCIENCE

2001 - 2005

- 3.60 GPA, Magna Cum Laude
- President of University of Michigan Gilbert & Sullivan Society, a student-run organization that produces comic operas.
- Member of Girls in Electrical Engineering & Computer Science, a co-ed organization promoting female participation in the field.
- Research assistant to Professor Jason Daida on work involving artificial intelligence and "spiritual machines."

## Skills

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<b>Programming Languages</b>	C, C++, C#, HTML/CSS, Java, JavaScript (Node), Objective C, Perl, Python, Processing, Ruby, Scratch, shell scripting (Fish, Bash), SQL, Swift
<b>Frameworks/Platforms</b>	Android, Ansible, Asyncio, Amazon Web Services (AWS), Celery, Cocoa, Django, Entity Framework, Flask, GitLab, Google Cloud Platform (GCP), Jenkins, Kubernetes, MVC, .NET, OpenCV, OpenGL, Pandas, PyGame, Rails, Selenium, Terraform, Travis CI, Trio, Watir, WordPress, WPILib
<b>Engineering Practices</b>	Agile development, collaboration using Git/SVN/CVS, continuous integration/deployment, infrastructure as code, microservices, programming puzzles, Scrum, test-driven development
<b>Additional Experience</b>	Educational technology integration, curriculum development, network administration, robotics, video editing, sound engineering, photo manipulation, digital illustration, 3D modeling

## Open Source Projects

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### OWNER/MAINTAINER

**Singletons**, Python library for the singleton (anti) pattern

<https://pypi.org/project/singletons/>

**CalFiller**, Web-based tool for unusually repeating events

<https://github.com/jmaroeder/calfiller>

**Lost Cities Scorekeeper**, Scorekeeping web app for the Lost Cities card game

<http://jmaroeder.github.io/lostcities/>

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### CONTRIBUTOR

**Poetry**, Python packaging and dependency management

<https://python-poetry.org>

**asdf-vm**, Manage multiple runtime versions with a single CLI tool

<https://asdf-vm.com/>

**Celery**, Distributed task queue

<http://www.celeryproject.org>

**SiriServer**, Drop-in replacement for Siri on older iOS devices

<https://github.com/jmaroeder/SiriServer>

**Django-Watchman**, Exposes a status endpoint for backing services

<https://github.com/mwarkentin/django-watchman>

## Affiliations & Volunteering

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**Founding Member**, Computer Science Teacher's Association, Ohio Chapter

**Member**, Association for Computing Machinery

**Mentor**, National Center for Women & Information Technology

**Mentor**, FIRST Robotics Competition

**Match Commentator & Event Support**, FIRST Lego League