

Shail Patel

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Education

- **Rensselaer Polytechnic Institute, (RPI)**
B.S. Computer Science, B.S. Cognitive Science

May, 2021
GPA 3.6/4.0

Experience & Selected Projects

- **Submitty** submitty.org
Open Source Software Development *Spring 2018 – current*
 - Open source programming assignment submission system used by RPI
 - Developed a regrade request system, streamlining the process of challenging a grade and gives instructors a central area to handle requests.
 - Enhanced UI when viewing TA/Instructor feedback, allowing students to view and understand their grades better.
 - Debugged issues and worked with a team of students and professors to design and implement new features.
 - Worked with a Linux, Apache, PostgreSQL, and PHP/python tech stack.
 - Implemented a method to assign uploaded exams to students using vision processing, preventing manual data entry, saving hours of work.
 - **Visual Logic** [shailpatels/visualLogic](https://shailpatels.github.io/visualLogic)
Independent Research Project *Spring 2018 – Present*
 - A purely graphical logic expression program using Existential graphs. Used to create formal logic proofs and to teach formal logic in an introductory course.
 - Worked with a professor to design and implement requested features across PC and WebGL build targets.
 - Developed an environment for unit and integration testing.
 - Developed in Unity and C#
 - Produced and presented a research poster at RPI's undergraduate research symposium.
 - **Computer Programming Instructor** [Clinton High School](#)
Taught an introductory computer programming course *Summer 2014-18*
 - Developed curriculum aimed at middle school students with no computer science skills.
 - Communicated with parents about course.
 - Introduced students to computer science by writing applications and games in Java.
 - Introduced students to robotics by demonstrating First Robotics Competition programming challenges
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Core Technical Skills

Languages & Software: C++, C, C#, PHP, Python, Laravel, \LaTeX , Java, JavaScript, Unity

Related Courses & Clubs: Data Structures, Foundations of Computer Science, Computer Organization, Intro to Algorithms*, Principles of Software*, Rensselaer Center for Open Source (RCOS), IntroSec

**Spring & Summer of 2019*

Awards and Honors

- Hack Tech Valley 2018 Finalist *Spring 2018*
CityCube: A web app that allows people to connect in cities by finding events [github/cityCube](https://github.com/cityCube)
 - IBM Call for Code participant *Fall 2018*
Road damage analysis: Used IBM vision to identify damaged roads after a natural disaster [shailpatels/callForCode](https://shailpatels.github.io/callForCode)
 - Rensselaer Medalist *Spring 2016*
100,000 dollar scholarship recognizing math and science excellence
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Leadership Roles

- Secular Students Alliance (SSA) *Spring 2018 – Current*
Club President
- First Robotics Competition (FRC) *2014-17*
Programming Lead