

# Shail Patel

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## Education

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

*May, 2021*  
GPA 3.8/4.0

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## Experience & Selected Projects

- **Submitty** [submitty.org](https://submitty.org)  
*Open Source Software Development* *Spring 2018 – current*
    - Open source auto-graded submission system used by RPI
    - Developed a regrade request system, streamlining the process of challenging a grade and gave instructors a central area to handle requests, saving time for both groups and reducing the number of emails sent back and forth.
    - Enhanced UI when viewing grader 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, automating data entry and saving hours of work for instructors and TAs.
    - Optimized web pages to handle larger class sizes, increasing response time and stability.
  - **Visual Logic** [GitHub/VisualLogic](https://github.com/VisualLogic)  
*Independent Research Project* *Spring 2018 – current*
    - 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 professor van Heuveln to design and implement requested features across PC and WebGL build targets.
    - Produced and presented a research poster at RPI's undergraduate research symposium.
    - Implemented novel features by researching the original papers written by Charles S Peirce.
  - **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.
    - Taught robotics by demonstrating First Robotics Competition programming challenges
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## Core Technical Skills

**Languages & Software:** C++, C, C#, PHP, Python, Haskell, Laravel, Twig, Bootstrap, L<sup>A</sup>T<sub>E</sub>X, JavaScript, Unity, git,

**Related Courses & Clubs:** Intro to Algorithms, Data Structures, Computability & Logic, Computer Organization, Principles of Software\*, Operating Systems\*, Rensselaer Center for Open Source (RCOS) \*Summer of 2019

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## 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)
  - Rensselaer Medalist *Spring 2016*  
*100,000 dollar scholarship recognizing math and science excellence*
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## Leadership Roles

- First Robotics Competition (FRC) [Clinton High School](#)  
*Programming Lead* *2014-17*
  - Wrote Java programs to complete FRC autonomous challenges.
  - Worked with drivers and operators to develop an intuitive control system.
  - Taught new members about robotics programming.