

# Shail Patel

shailpatel67@gmail.com | [shailpatels.me](https://shailpatels.me) | [GitHub/shailpatels](https://github.com/shailpatels)

## Education

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

May 2021  
GPA 3.5/4.0

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## Core Technical Skills

**Languages:** C, C++, C#, PHP, Python, Haskell, Java, JavaScript, TypeScript, HTML, CSS, R

**Software & Tools:** git, Unity3D, Laravel, RStudio, React, L<sup>A</sup>T<sub>E</sub>X

**Courses:** Intro to Algorithms, Data Structures, Computability & Logic, Principles of Software, Operating Systems, Computer Communication Networks, Open Source Software, Computer Vision, Programming for Cognitive Science & AI

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## Work Experience

- **Lockheed Martin Rotary & Mission Systems**

*Software Engineer, Level 2*

June 2021 – current

- Modern C++ development on a distributed system
- Software engineering in an agile workflow
- Developed GPU accelerated signal processing chains through Nvidia CUDA toolkit
- Integrated existing programs and modules and modified to fit new specifications
- Collected statistics on performance and resource utilization to create formal documentation used to meet customer set requirements

- **Submittity**

*Open Source Software Developer*

[submittity.org](https://submittity.org)

Spring 2018 – current

- Full stack development in a Linux, Apache, PostgreSQL, and PHP/python tech stack
- Implemented a QR code scanner to detect student IDs and separate batches of student exams automatically, saving hours of manual data entry from instructors
- Designed and developed an OCR system to detect handwritten student ids
- Google Summer of Code 2019-21 summer mentor

- **Cisco Systems**

*Technical Consulting Engineer*

January 2020 – June 2020

- Computer networking focusing on troubleshooting customer gear and networks
- Racked, installed, and setup Cisco devices to build network recreates
- Worked with Cisco device configurations and basic layer 2 & 3 network protocols
- Co-Managed a project to automate detection of common issues in Cisco WebEx by leading and teaching a group of new developers in python and automation tools

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## Publications

- A Graphical System For Logical Reasoning Using Existential Graphs  
*Shail Patel, Bram van Heuveln*

RPI Cognitive Science Dept.

- Facilitating Discussion-Based Grading and Private Channels via an Integrated Forum  
*Andrew Aikens, Gagan Kumar, Shail Patel, Evan Maicus, Matthew Peveler, and Barbara Cutler*

SIGCSE 2019

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## Honors & Certifications

- Rensselaer Medalist  
*100,000 dollar scholarship recognizing math and science excellence*

Spring 2016

- Cisco Certified Networking Associate (CCNA)  
*Demonstrated knowledge and skills related to network fundamentals*

May 2020 – May 2023