

# Shail Patel

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## Education

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

May 2021  
GPA 3.5/4.0

## Core Technical Skills

**Languages:** C, C++, C#, PHP, Python, SQL, Java, JavaScript, TypeScript, HTML, CSS, Zig, Rust

**Software & Tools:** Linux, git, CMake, CI/CD pipelines, Docker, VirtualBox, Ansible,  $\LaTeX$

**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

## Work Experience

- **Lockheed Martin Rotary & Mission Systems**

*Software Engineer, Level 2*

June 2021 – current

- Engaged in modern C++ development on a distributed system
- Participated in an agile software engineering workflow
- Developed and integrated GPU-accelerated signal processing chains through Nvidia CUDA toolkit
- Designed and implemented a modular software architecture based on requirements, enabling rapid integration
- Modified and integrated existing software modules to align with new specifications
- Collected statistics on performance and resource utilization to create formal documentation used to meet customer set requirements
- Communicated with program leadership and customer teams on the technical status of various subsystems
- Assisted multiple test events through the setup, deployment, and collection of results on site and in the field

- **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, automating the batching of student exams and saving hours of manual data entry for instructors
- Designed and developed an OCR system to detect handwritten student ids
- Volunteered as a mentor for the organization during Google Summer of Code (GSoC) from 2019 to 2021

- **Cisco Systems**

*Technical Consulting Engineer*

January 2020 – June 2020

- Specialized in computer network engineering with a focus on troubleshooting customer equipment and networks
- Racked, installed, and setup Cisco devices to build network replicas for issue reproduction
- 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

## 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*

## Honors & Certifications

- Cisco Certified DevNet Associate (CCDevA)

Demonstrated knowledge over DevOps, network automation, and API design and development

May 2023 – May 2026

- Cisco Certified Networking Associate (CCNA)

Demonstrated knowledge and skills related to network fundamentals

May 2020 – May 2026