

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, Java, JavaScript, TypeScript, HTML/CSS, R, Zig

Software & Tools: git, Laravel, RStudio, React, L^AT_EX

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

- 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

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

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

- 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