# Rohil Sharma

rohil@rohilsharma.com     (765) 637-1737

## Work Experience

 **Qualcomm**  •  Engineer  •  San Diego, CA  •  Jul 2019 – Present

> Part of Continuous Integration team with emphasis on Build Systems; was responsible for design, development, testing, and maintenance of software tools used to create engineering builds for internal customers, some of which were eventually shipped to Qualcomm's enterprise customers

> Lead the design and development of a plug-n-play HealthChecker service that performed status checks on a plethora of internal entities as an engineering build progressed, and were used to determine if the build would continue or abort. The HealthChecker service is used for every engineering build created by the CI team

> Python (SCons, Flask) • C# • Database (SQL, Mongo)

 **Roofstock**  •  Software Engineering Intern  •  Oakland, CA  •  May 2018 – Aug 2018

> Generated an algorithm for portfolio buyers and sellers to easily download portfolio documents while preventing computer memory overflow issues

> Designed a system to send a weekly Excel attachment to the Sales team containing properties on the market for more than 30 days so they can prioritize getting them sold

> Engineered a Broker Portal to allow Buyer and Seller brokers partial database access in order to speed up transactions

> C# • Azure • ReactJS

 **CAM²**  •  Research Assistant  •  West Lafayette, IN  •  May 2017 – Dec 2017

> As part of the Earthquake Damage Visualization team, developed a web application from scratch to help researchers upload, organize, and filter thousands of images regarding earthquake-damaged buildings based on image metadata

> Communicated with researchers frequently to ensure the web application matched requirements

> Administered a team of students to parallelize rapid development of the application

> Python • Django

## Projects

### SmartMirror    Aug 2018 – Dec 2018

> In a 4-person team, interfaced with a Raspberry Pi to create an interactive mirror to give the user a customized glimpse of their upcoming day

> Implemented calls to weather, news, WolframAlpha, and Wikipedia APIs in order to provide updated information to the user

> Designed systems for interfacing with voice commands, login via facial recognition, and live email to assist in effective communication between the user and SmartMirror

> Python • TKinter

### Bitcoin Miner    Aug 2017 – Dec 2017

> In a 4-person team, fashioned an ASIC chip to function as a Bitcoin Miner

> Implemented creative methods, such as a sliding window filter, to achieve a final hash rate of 1.5M hashes/sec

> Verilog

## Leadership

### President: Purdue Project RISHI    Aug 2018 – May 2019

> Interacted closely with Student Activities and Organizations to plan out large events (100+ guests) and use profits to support our partner village of Kharoli, India

> Hosted officer and general meetings to delegate tasks amongst Fundraising, Projects, and Outreach teams for the week

### Teaching Assistant: Purdue ECE    Jan 2018 – May 2018

> Instructed two three-hour lab sections of 25 students each to reinforce students' lecture material

> Demonstrated and clarified core ARM microprocessor concepts to ensure student mastery

## Education

 **Purdue University**  •  BS Computer Engineering  •  3.4/4.0  •  Aug 2015 – May 2019