

Atlanta, Georgia, USA

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Experience _

Georgia Institute of Technology

Atlanta, Georgia

GRADUATE RESEARCH ASSISTANT

May. 2019 - Present

- Developing and maintaining cloud scale applications for the Research Network Operations Center(RNOC), GeorgiaTech's network research lab.
- Scaled an Openshift Container Platform cloud, a docker based cloud for running micro-services open for GeorgiaTech members.
- Extended the Smart Sea Level Sensors project, and currently implementing Geo-resiliency using multiple cloud providers.
- Maintained ~100% uptime of the cloud through multiple points of failure including power outages and other hardware failures.
- Ensured security and resiliency of the cloud while publicly accessible and under external attack.

Housing.com Mumbai, India

TECH LEAD, VIRTUAL REALITY

Mar. 2015 - Sep. 2017

- Real Estate VR + Build Automation
 - **Engineered Housing's VR product from scratch**, designed intensive usability testing programs; experimented with every facet of design and the tech stack to deliver a state-of-the-art result for the Samsung Gear VR.
 - Drove scalable production through a build system, seamlessly connecting the browser to Unity, cutting down delivery times from months
 to hours. Developed with a VR team I setup and managed.
 - Persevered to make the product a commercial success, modifying it after identifying market needs and tailoring it for Indian real estate.
- Routing System & Polygon Crawler
 - Built an in-house routing system for Housing's map interface with features like multi-transit isoline generation. Scaled to thousands of concurrent users in production after driving traffic through a conversion rate of 60%.
 - Designed an efficient polygon and fid/address crawler for cities from Google's Mapmaker which automated the city addition process.

Cisco Systems Pune, India

SOFTWARE ENGINEER & INTERN

Jan. 2013 - Dec. 2014

- Contributed to core nodes in the LTE architecture used by major US telecom carriers. Wrote **high-scale**, **low-level C code**, following stellar software engineering practices including AGILE, peer reviews and version control.
- · Delivered a graphical network debugger as a solo project which cut down network debugging times x2.

Education _____

GeorgiaTech Atlanta, Georgia, USA

MS IN COMPUTER SCIENCE - 3.75 GPA

Aug. 2018 - Present

- Developing for Mixed Reality(XR), specializing under Human Computer Interaction.
- Developing a WebXR launcher with Prof. Blair, Director@Mozilla, targeted at AR displays which can sense 3D surfaces.
- · Writing a paper on the surprisingly accepting VRChat community, targeted to be published in ACM CSCW '21.

IIIT Allahabad Allahabad Allahabad, UP, India

Bachelor of Technology in Information Technology — Graduated top 1% of the class

Jul. 2009 - Jun. 2013

- · Founding secretary of the technical club, entrusted with the college network, and innovating new services.
- Published 'Patel, Khushman, et al. "Lazy Wavelet Transform Based Steganography in Video." Communication Systems and Network Technologies (CSNT), 2013 International Conference on. IEEE, 2013.'

Fun stuff™.

- Worked on an interactive VR documentary with PBS showcasing the failures of DNA evidence by walking you through an actual failed case.
- Poetry and stories http://blog.khushmanpatel.com

Skills __

Programming Python, C, C++, QT, Unity3D C#, Shell + regex, Android Java, LaTeX, ffmpeg, NSIS, numpy, keras, Google Apps Script, Docker+s2i **Web Tech.** RubyoR, Django, HTML5, nginx, PostgreSQL, PostGIS, pg-routing, JS, Aframe, AWS, Three.js, OpenShift Container Platform, Nagios

Software Eng. Agile development, Scrum, Git, Peer reviews, Pair programming, Waterfall, Remote productivity

Leadership Led a team of 5 to continuously innovate one of India's first VR products through an unstable startup environment.

MARCH 21, 2020 KHUSHMAN PATEL · RÉSUMÉ