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Experience _____

Georgia Institute of Technology

Atlanta, Georgia

GRADUATE RESEARCH ASSISTANT

Aug. 2018 - Present

Dec. 2014 - Sep. 2017

- · 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.

Housing.com Mumbai, India

Real Estate VR + Build Automation

TECH LEAD, VIRTUAL REALITY

- 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 Unity 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.
- Post commercial launch, broke even on R&D costs within a year by 2016.
- 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 - 3.80 GPA

Aug. 2018 - Present

- · Manage a cloud on the Openshift Container Platform run on bare metal at GaTech, as a Graduate Research Assistant.
- · Writing a paper on a computational cognitive model to simulate working memory for studying deficits in patients with schizophrenia.
- Developed productized improvements to the Career Fair process for College of Computing@GaTech, being implemented from Fall '19.

IIIT Allahabad Allahabad, UP, India

BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY — 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, PyTorch, Google AppScript, 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.