

Khushman J. Patel

Atlanta, Georgia, USA

☎ (+1) 4044291391 | ✉ khushman1@gmail.com | 🏠 www.khushmanpatel.com | 📱 khushman1 | 📄 khushman-patel | 🌐 khushman

Experience

Google via Moback Inc.

Mountain View, California

SENIOR SOFTWARE ENGINEER

Aug. 2020 - Present

- **Tackling industrial robotics automation challenges** on-site as a vendor member of the **Brain research team**.
- Using Unity to create simulations and photorealistic reproductions of real environments which are interactable using VR over global networks.
- Developing technical-user complex user experiences in VR to allow for fine-grained control of industrial accuracy tasks.

Housing.com

Mumbai, India

TECH LEAD, VIRTUAL REALITY

Dec. 2014 - 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 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 — 3.75 GPA

Aug. 2018 - May 2020

- Developed a **WebXR launcher** with Prof. Blair, Director@Mozilla, targeted at AR displays which can sense 3D surfaces.
- Manage a **cloud on the Openshift Container Platform** run on bare metal at GaTech, as a **Graduate Research Assistant**.
- Developed **productized improvements to the Career Fair** process for College of Computing@GaTech, 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.** RubyonR, 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.