NITIN VARYANI

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INTERESTS
Web development, Mobile App development (3.5 years of experience in United States and India)

EDUCATION

- **Birla Institute of Technology and Science**, Pilani, India **Aug 2009 - May 2014**
  Bachelor of Engineering (Hons.), Computer Science
  Master of Science (Hons.), Mathematics

  - **CGPA**: **8.68 / 10.0**

- **Birla Institute of Technology and Science**, Pilani, India **Aug 2014 - May 2016**
  Master of Engineering, Computer Science

  - **CGPA**: **9.39 / 10.0**

- **University of Minnesota**, Minneapolis, United States **Sep 2017 - Current**
  PhD, Computer Science

  - **CGPA**: **3.889 / 4.0**
  - **Advisor**: Prof. Zhi-Li-Zhang
  - **Research Area**: Traffic Engineering in Software-Defined Wide-Area-Networks (SD-WANs)

EXPERIENCE

Web developer intern, Google, California **May, 2019 - Aug, 2019**
. **May, 2020 - Aug, 2020**
Mentors: *Li Qiu, Brad Morrey, Dennis Fetterly, Ahmed Mansy, and Malveeka Tewari, B4 team, Google, Sunnyvale, CA*

- Developed an internal dashboard website to analyze the latency and network availability of traffic in the B4 network by bringing together different types of data sources like passive and active measurement sources, traffic engineering paths, and fibre lengths.
- The front-end was developed using Google's custom internal API and the back-end queries were made using Google's advanced SQL-based libraries.

Web developer and edX program manager, BITS Pilani **Aug, 2014 - July, 2016**
- Developed a website for conducting lab exams of Computer Programming course of BITS Pilani using ASP.NET framework, C# and MySQL database.
- Performed automatic evaluation of student submissions in the backend using Python.
- Developed and integrated exercises such as Online C compilers into online courses on edX website to aid the teaching of BITS faculty members.

Web developer, Aditya Birla Management Corp. Pvt. Ltd. **Jan, 2014 - June, 2014**
- Designed a dashboard website for integrating the data of various divisions such as Admissions, Placement, Accounts, etc. of all the Indian Campuses of BITS Pilani University. A summary of the statistics of the University was created on the website for leadership to make decisions.
- Website was developed in ASP.NET framework, C and SQL database.

Software developer, NUS School of Computing, Singapore   Jan, 2017 - July, 2017

- The lab provides a testbed of SDN switches which uses a network hypervisor, OpenVirteX, to create multiple virtual and programmable networks on top of a single physical infrastructure.
- OpenVirteX currently supports only OpenFlow 1.0. I developed support for higher versions of OpenFlow for OpenVirteX using OpenFlowJ-Loxi, a Java artifact of Loxigen, which exposes the OpenFlow protocol through a version-agnostic, fluent Java API.

OTHER SELECTED PROJECT

Cab booking website using React JS

- Developed an outstation cab booking website using React JS and Firebase Realtime Database.
- Used Material-UI library, Google Places API, Firebase authentication and React bootstrap library. [Github link] [Website link]

TECHNICAL SKILLS

- **Web Technologies:** React JS, ASP.NET, HTML, CSS, JavaScript
- **Programming:** C, C++, Java, C#, Python, MySQL, P4, x86 assembly language, Verilog
- **Softwares and Libraries:** OverSim, p2psim, OpenDaylight, Mininet, Maxinet, MATLAB, Visual Studio, OpenCV library, PyCharm
- **Operating Systems:** Windows, Mac OS X , Linux (Ubuntu)