

Nibesh Shrestha

Education

- 2017–present **Ph.D. computer science**, *Rochester Institute of Technology*, Rochester, NY, USA.
Advisor: Mohan Kumar, GPA: 3.86
- 2009–2013 **B.E. Electronics and Communication Engineering**, *Tribhuvan University*, Lalitpur, Nepal.
GPA: 3.81

Professional Employment

- 2017–present **Graduate Research Assistant**, *Rochester Institute of Technology*, Rochester, NY.
Interested in Fault tolerant distributed systems, Blockchains and Consensus
- 2015–2017 **Freelance Software Developer**, *Upwork Global Inc.*, Cambridge, MA.
Worked as an Elasticsearch consultant; working in various large web-application using Django as web backend and Elasticsearch as search backend
- 2016–2017 **Senior Software Engineer**, *FFL Design Inc.*, Meridian, ID.
Built E-commerce applications for shooting sports industry
- 2014–2015 **Senior Software Engineer**, *n.Locate Pvt. Ltd.*, Lalitpur, Nepal.
Built local search engine for places, movies, etc using Elasticsearch as the backend
- 2013–2014 **Design Engineer**, *Real Time Solutions*, Lalitpur, Nepal.
Worked with LUFA, LWIP stack in Free-RTOS.

Projects

Fault Tolerant Key Value Store.

A distributed dictionary made fault-tolerant using Raft protocol. Requires $2f + 1$ servers to tolerate f crash failures in the system.

AI-Pollo: Mixed Reality Theatre.

A HoloLens application that dynamically anchors holograms to different world positions based on an external control application. Multiple hololens can view same shared environment.

FPGA Implementation of Stereo Vision.

Image disparity computed with correlation between two images from identical cameras and disparity map displayed in a monitor. Spartan 3A DSP board and VHDL language used to program the system

USB based oscilloscope.

USB oscilloscope using ADC module in Atmega8. GUI Interface made in C++ to view signals.

Awards and Honors

- 2017–present RIT PhD Merit Scholarship
- 2009–2013 The College Fellowship Scholarship

Skills

Languages.

TLA+, GoLang, Python, SML, Java, Scala, Matlab, VHDL, C++, C, C#, Javascript, PHP

Frameworks.

Django, Falsk, Spark

Databases.

Elasticsearch, Mysql, Postgresql, MongoDB, Sqlite

References

Dr. Mohan Kumar

Professor & Chair

Computer Science Department

Rochester Institute of Technology

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