

# Dr. Om Gnawali

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## Education

- Stanford University, Computer Science, **Postdoc**, 2009-2011
- University of Southern California, Computer Science, **Ph.D.**, 2009
- Massachusetts Institute of Technology, Computer Science, **M.Eng.**, 2002
- Massachusetts Institute of Technology, Computer Science, **S.B.**, 2001

## Work Experience

- 12/2017 – present, **CEO**, AI Savvy Inc., Houston, TX
- 08/2011 – present, **Asst/Associate Professor**, Dept. of Computer Science, University of Houston.
- 2013 – present, **President and CEO**, Nepalese Children's Education Fund, Inc., Cambridge, MA.
- 12/2012 – 1/2015, **CTO**, LookAllure Inc., CA
- 7/2003 – 9/2003, **Research Intern**, Intel Corporation, OR
- 6/2000 – 8/2000, **Web Developer**, Arsdigita Corporation, MA

## Technical and Management Skills and Experiences

- **For AI Savvy Inc:** Lead sales and technical team to develop value for our clients using state-of-the-art artificial intelligence technologies, including deep learning, machine learning, and data science.
- **For LookAllure Inc:** Led a team to build computer vision (image recognition) system and product information aggregation for LookAllure. The system is deployed on Amazon Web Services. The team also built an iOS app that interacted with the backend to deliver rich user experience to the customers.
- **For TinyOS:** I chaired the network protocol working group for TinyOS during 2007-2012 and did technical and management work. TinyOS is an open source research operating system for sensor networks and widely used in research, education, and industry.
- **For University of Houston:** Successfully secure funding for four externally funded research projects and lead the technical team, including PhD students, to complete the projects and communicate the results to scientific peers and the public. I also taught courses at the graduate and undergraduate levels on computer networks, cyber-physical systems, and research methods in computer science.
- **For NCEF:** Oversee administrative and fundraising volunteers. The organization provides about 70 need-based scholarships to students in Nepal every year.
- **Technical skills – data science and IoT:** Python/R, machine learning, NLP, deep learning, IoT technologies, **web backend:** C++, Python, SQL/NoSQL systems. Most development on Linux platform and can build and deploy to AWS; **frontend:** Javascript/CSS.

## Awards and Other Accomplishments

- **Fourth place** (out of 25 teams), 6.370 MIT IEEE/ACM Programming Competition, January 2001, Massachusetts Institute of Technology, Cambridge, MA
- **First place** (out of 400+ students), 6.001 Programming Competition, April 1998, Massachusetts Institute of Technology, Cambridge, MA
- **Best paper awards** for research papers in IPSN 2010 and IFIP Sustain IT 2017 conferences.
- I am a co-author of two Internet Engineering Task Force RFCs (RFC 6719 and RFC 6206) and have authored more than 60 peer-reviewed publications in IoT, data science, and wireless sensor networks.