

Harish Narayanan

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Profile

I'm a computational science PhD who loves learning about and building sophisticated technology. My focus at the moment is on applications of deep learning, and understanding how to build reliable distributed systems.

I'm currently one of the founders and the CTO at Edgefolio, a startup building effective solutions for different stakeholders in the hedge fund industry. Previously, I was an applied mathematician and computational biologist studying a range of relevant problems in biophysics.

Experience

CO-FOUNDER AND CTO, EDGEFOLIO; LONDON, UK – 2013-PRESENT

- Architecting and implementing a web-based platform that connects investors and alternative investments.
- Growing and mentoring a technical team that's great at building useful products.

FOUNDER, MECHANICS ACADEMY AND THINKBOT; OSLO, NORWAY – 2012-2013

- Architected and implemented a system that offers select scientific computing software as a service.
- Designed and developed a mechanics education resource that employed this service to engage learners with interactive, application-relevant simulations.

POSTDOCTORAL FELLOW, SIMULA RESEARCH LABORATORY; OSLO, NORWAY – 2008-2012

- Devised robust numerical algorithms and worked collaboratively with small teams on developing sophisticated yet easy-to-use scientific software.
- Successfully applied these tools to help better understand a range of physical phenomena in biomedicine and broader fields.
- Co-advised one doctoral student and assisted others with their research and programming.

RESEARCH ASSISTANT, UNIVERSITY OF MICHIGAN; ANN ARBOR, USA – 2002-2008

- Acquired a range of technical skills and knowledge in applied mechanics, mathematical modelling and scientific programming.
- Collaborated closely with domain experts to solve physiologically-relevant problems in biomedicine.
- Effectively communicated complex concepts to various audiences through articles, talks at conferences, research web pages and classroom instruction.

Education

UNIVERSITY OF MICHIGAN, ANN ARBOR, USA

- PhD, Mechanical Engineering and Scientific Computing, 2003–2007
- MS, Mathematics, 2003–2006
- MSE, Mechanical Engineering, 2002–2003

UNIVERSITY OF MADRAS, CHENNAI, INDIA

- BE, Mechanical Engineering, 1998–2002

Technical Skills

Mathematical Modelling, Scientific Computing, Web Development, Machine Learning, Distributed Systems, Numerical Algorithms, Technical Product Management, Scientific Writing, DevOps, Continuum Mechanics, Biophysics, Financial Mathematics, Computer Algebra, Finite Element Tools, API Development, TDD and BDD, Revision Control, C++, Python, MATLAB, Mathematica, R, Bash, HTML, CSS, Django, Kubernetes, TensorFlow