

ARUNESH MISHRA

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INTERESTS

Peer-peer networking and distributed system protocols for Blockchain Infrastructure. Deep Learning for mobile applications. Wireless and Wired Networking Systems, Systems Security, Design of Scalable and Robust Systems, Location Inferencing from Wireless Networks, Location Security and Privacy.

WORK EXPERIENCE

Feb 2017 - date

Advisor and Mentor, Zhongguancun Innovation Center, Santa Clara.

Advising 4 startups on ML/Deep Learning, network design, strategy and pitch.

Advisor, Latitude Blockchain Startup.

Designing the Latitude protocol, blockchain and core whitepaper to disrupt mapping, telematics and insurance.

Research/Exploratory projects.

Wifi Expert app uses AI to solve problems on Android(30K daily active users, 4.4 rating).

Safely (getsafely.net), AI based Assistant for physical safety. *Piccolo* (<https://piccolo.network>)

a decentralized scalable database for blockchain apps.

Jan 2008 - Feb 2017

Tech Lead, Research Engineer roles, Google, Mountain View, CA.

Worked on 4 different projects, built backends and Android location infrastructure that serves more than 3 Billion users every day. Participated in Google I/O demos. 30+ patents filed or issued.

EDUCATION

Ph.D., Computer Science,

Advisor: Dr. William Arbaugh,

Thesis: *Supporting Secure and Transparent Mobility in Wireless LANs*

University of Maryland, December 2005.

B.Tech., Computer Science (President Gold Medalist),

Indian Institute of Technology, August 2000.

OTHER CONTRIBUTIONS

Patents: 30 patents issued, 21 pending.

Open1x.org effort: Engineered the first and widely used opensource implementation of the IEEE 802.1X for wifi security. Ships with linux distributions.

Best paper award, Mobicom, 2009: Awarded for the paper titled, "Centaur: Realizing the Full Potential of Centralized WLANs through a Hybrid Data Path."

Google's Executive Management Group's Innovation Award, 2008: Prestigious award presented by the C-Suite for innovative engineering work.

President of India Gold Medal - 2000: Awarded for highest GPA among all 2000-batch undergraduate students at IIT Guwahati.

Student Rank One Merit Scholarship 1997-2000 IIT Guwahati. Given to 1 student every semester. Won the award for 6 semesters consistently.

Best Intern Award - 1999: Awarded for best project intern at IBM India Research Labs, New Delhi.

Business Plan Award: Business Competition - Runners up, 2002, University of Maryland Business School.

Routinely invited to review papers in top tier conferences and journals.

Media citations:

- *Wired article on Nearby audio API*, <https://www.wired.com/story/ultrasonic-signals-wild-west-of-wireless-tech/>.
- *Google Deducing Wireless Data*, on Slashdot and other Tech websites, Jan 29, 2010.
- *CNN, PCWorld, ZDNet News, Slashdot*, “Researchers claim to crack wireless security”, February 18, 2002.
- *CNET Asia*, “Wireless network security shows cracks”, February 19, 2002.
- *BusinessWeek Online*, “This LAN is Whose LAN?”, February 21, 2002.