

## ABHINAV GUPTA

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Citizenship: INDIA | Gender: Male | IEEE Comsoc Number-90468141

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### **EDUCATION:**

**University of New Hampshire**, Durham, NH Sept 2018- Present  
*Candidate for Ph.D. in Computer Science, CEPS*  
GPA: 3.67/4.0

**Boston University**, Boston, MA Jan 2017  
*Master of Science in Computer Science, Graduate School of Arts and Sciences*  
GPA: 3.88/4.0

**HULT International Business School**, London, UK August 2012  
*Master of International Business*  
GPA: 3.0/4.0

**Maharshi Dayanand University**, Rohtak, India Sep 2011  
*Bachelor of Technology in Computer Science & Engineering*  
GPA: 3.64/4.0

### **PUBLICATIONS:**

- A. Gupta and R. Bartos, "User Experience Evaluation of HTTP/3 in Real-World Deployment Scenarios," *In Proc. of 25th Conference on Innovation in Clouds, Internet and Networks and Workshops (ICIN)(ICIN 2022)*, (Paris, France), Mar. 2022.
- A. Gupta and R. Bartos, "Improving HTTP/3 Quality of Experience with Incremental EPS," in *2024 IEEE International Mediterranean Conference on Communications and Networking (MeditCom)*, July 2024. To appear.
- A. Gupta and R. Bartos, "Improving Web Content Delivery with HTTP/3 and Non-Incremental EPS," *In Proc. of the 33rd International Conference on Computer Communications and Networks*, July 2024. To appear.
- A. Gupta and R. Bartos, "Enhancing QoE in HTTP/3 using EPS Framework." Available at <https://arxiv.org/pdf/2404.17439>, 2024.

### **TEACHING FELLOWSHIP EXPERIENCE:**

#### **Duties Involved**

- Conducting Labs and Weekly Recitations.
- Writing Solutions to Programming Challenges.
- Holding Office Hours and Grading Projects, Assignments, Quizzes, Exams.

#### **Courses and Dates**

- Spring 22 – Fall 23: Foundations of Programming for Digital Systems (CS 420), UNH
- Fall 20 – Fall 23: Computer Organization and System-Level Programming (CS 520), UNH

- Fall 21, Fall 22, Fall 23: Computer Networks (CS 7/825), UNH
- Summer 20, Fall 20, Spring 21: Introduction to Programming (CS 410C, CS 410P), UNH
- Spring 2020: Introduction to Computer Science II (CS 416), UNH
- Spring 2020: Computer Security (CS 7/827), UNH
- Fall 16: Introduction to Internet Technologies and Web Programming (CAS CS 103), Boston University
- Summer 16: Introduction to Computer Science II (CAS CS 112), Boston University

## **TECHNICAL KNOWLEDGE:**

Languages and Frameworks:	Java, Python, C, C++, YAML, XML
Statistical & ML Tools:	R, NumPy, Pandas, Matplotlib, Scikit-Learn
Scripting Languages:	JavaScript, Shell Scripting.
Automation Tools & Cloud:	Docker, GIT, ngrok, Netem, AZURE

## **WORK EXPERIENCE:**

**University of New Hampshire, Computer Science, Durham** Jan, 23 – May, 23

*Instructor of Record (Section III):*

*Foundations of Programming for Digital Systems*

- Conducting Weekly Lectures, holding office hours and writing solutions.

**SUBCOM, Newington, NH, USA**

June, 22 – Aug, 22

*Network Management Software Intern*

- Developed a Network Management utility tool using Java Swing

**JTAC, Juniper Networks, Westford, MA**

Jan, 19 – May, 19

*Tools Development Engineer Intern*

- Writing Playbooks for HealthBot (Network Health and Diagnostic Tool) using Python and YAML

## **PRESENTATIONS:**

- User Experience Evaluation of HTTP/3 in Real-World Deployment Scenarios Presented at:
  - 25th Conference on Innovation in Clouds, Internet and Networks and Workshops (ICIN), Paris, France, March 2022.
  - Graduate Research Conference (GRC) at the University of New Hampshire (UNH), April 2022.

## **AWARDS & EXTRACURRICULAR ACTIVITIES:**

- Member, HULT Student Association May 2012 - Aug 2012
- Student Chairperson, IEEE (ITM Gurgaon), India Aug 2009 - June 2011
- President, Computer Society of India (ITM Gurgaon) India Aug 2010 - June 2011
- Awarded Outstanding Student Volunteer Award, ITM Gurgaon  
Delhi Section at Institute of Electrical and Electronic Engineers (IEEE) 2010