Yash Sharma

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WORK EXPERIENCE

YORYO TECHNOLOGIES (OPERATIONS RESEARCH) | Software Engineer   Jan 2019 – June 2021

- Designed & solved **constraint satisfaction problems** producing 20% savings in logistics cost
- Implemented algorithms for vehicle routing & capacity management using **Google OR-Tools** ⬈
- **Distributed systems programming** for generating large dispatch schedules in parallel
- Architect of database schema & authentication system for integration with third-party logistics
- Produced pipeline for data processing and identity-based access management

QUARK EXPERIENCES (VIRTUAL REALITY) | Software Engineer   Jun 2017 - Dec 2018

- Tool for design validation and approval of machines & assembly lines in VR
- Network programming for synchronous VR live-streaming from computer to headset/mobile
- Automated **image processing** pipeline, reducing deployment time down from 6 hours to 5 minutes
- Led development of augmented reality mobile app for textile design try-out (1K+ downloads)

PERSISTENT SYSTEMS | Software Engineer Intern   Sep 2016 – May 2017

- Simulated cloud environments using **CloudSim** ⬈ to evaluate reliability(availability/downtime) and security
- Compared speed of data read/write for different data encryption algorithms namely - AES, Blowfish, and RSA

INNOBYTES TECHNOLOGIES | Software Engineer Intern   Dec 2015

- Led web development project for a group of 3 and successfully delivered in 1 month

EDUCATION

Masters in Computer Science   New Brunswick, USA | Sep 2021-Now
Rutgers University

Bachelors in Computer Engineering   Pune, India | Aug 2013-Jun 2017
University of Pune

PROJECTS

VIRTUAL REALITY TO TREAT PHOBIAS ⬈   Jan 2016 – March 2016
A VR tool to help people overcome their phobias by facing them in a non-threatening simulated environment. Included simulations for fears of heights(acrophobia), fear of insects(entomophobia) and fear of closed spaces(claustrophobia)

GREEN AGE ⬈   Aug 2016 – Jun 2017
A 2D side-scrolling adventure video game

INFINITE LOOP ⬈   Jan 2015 – May 2015
A website for online programming practice. Group of 3 worked on the project. I developed the capability for compilation/interpretation of C++, Java and Python on server side and test the correctness of program against test cases

SKILLS

Languages: C++, Python, C, Java, C#, JavaScript
Technologies/Frameworks: PyTorch, Git, AWS, Spring Boot, Django, SQL, MongoDB
Tools: Unity, Unreal Engine, Blender, Premier Pro, LaTeX

AWARDS

Gold Badge: Problem Solving - HackerRank ⬈
2 Bronze medals World CodeSprint 8 and Week of Code 24