

Kushagra Gupta

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gupta1000.github.io

Education

University of Illinois at Urbana-Champaign, BS. Computer Engineering, Senior Champaign, IL, 2016-20
Provost Scholarship - One of 30 students to receive Full Tuition scholarship for academic excellence GPA: **3.97**/4.00
Chancellor's Scholar, Engineering James Scholar - One of 125 students to participate in honors curriculum

The Hoeft Technology and Management Program
One of 30 engineering students selected for cross-disciplinary business minor focused on management in the tech field

Illinois Mathematics and Science Academy, GPA: **4.00**/4.00 Aurora, IL, 2013-16

Experience

Facebook, Technical Program Manager Intern Menlo Park CA, May - Aug 2019
Implemented algorithmic distributed service placement strategies to improve infra-product disaster tolerance across FB
Exposed metrics to track fault-tolerance over time and improved spread for 10+ target services by up to 40% over 3 months
Quantified the cost of disasters against FB infra, allowing prioritization of service efforts to prevent and mitigate outages

Samsara, Software Engineering Intern San Francisco CA, Jan - May 2019
Developed firmware support for industrial protocols enabling remote monitoring and control of enterprise hardware
Designed and implemented a framework for controlling outputs on all Samsara hardware and peripheral devices
Engaged with customers and sales engineers to design and deploy a simple and unified device on-boarding workflow

KPMG, Technology Advisory Intern | Cognitive Automation Chicago IL, June - Aug 2018
Collaborated on engagement leveraging machine learning to streamline client HR processes and cut onboarding time
Automated the training process for a context-based translation engine applicable across a range of business functions
Developed versatile codebase (NodeJS, Python) prioritizing reusability for future clients, allowing repeat monetization

Misty Robotics, Formerly Part of Sphero, Electrical and Computer Engineering Intern Boulder CO, May - Aug 2017
Built and programmed embedded FPGA boards that shipped in the developer release of the core product, the Misty I robot
Collaborated with Chinese manufacturing team to develop new motor control system for the robot's commercial release

ParkWhiz, Software Development Intern Chicago IL, Nov 2015 - July 2016
Implemented an analytics platform on Parkwhiz applications to drive meaningful change by leveraging customer data
Deployed a data-driven targeted marketing plan that increased site traffic by more than 5 percent over one month

Leadership

OTCR Consulting, Partner | Professional Development University of Illinois at Urbana-Champaign, 2016-18
Led project with Microsoft to develop novel blockchain implementation models as potential services for Microsoft Azure
Coordinated with client to define project scope and managed project process for 10-member team to build deliverables

ECE Department, Undergraduate Teaching Assistant | ECE391 University of Illinois at Urbana-Champaign, 2018
Explained operating systems design and low-level device architecture concepts in advanced core class with 250+ students

IEEE + ECE Pulse, Marketing and Design Director University of Illinois at Urbana-Champaign, 2017-18
Coordinated design and advertising across print and digital media platforms for 2 week-long event hosting 1000+ students
Executed brand redesign and created new logo with corresponding design language guidelines to promote conference

Indian Student Association, Creative Design Chair University of Illinois at Urbana-Champaign, 2016-18
Organized more than 12 events each year promoting Indian culture and built a social media presence of 3,500+ followers

Skills

Selected Past Classes	ECE422: Computer Security	CS374: Algorithms	TGMT367: Management of Tech & Innovation
	ECE391: Computer Systems Eng.	CS425: Distributed Systems	CS431: Embedded Systems
	ECE486: Control Systems	ECE313: Probability in Engineering	CS225: Data Structures
Languages	C, C++, Go, Java, Typescript, Python, HTML, CSS, MATLAB, Assembly Programming (x86, LC3)		
Technical Software	Git, SVN, Eclipse, Verilog, Quartus, Altium, Adobe Photoshop/Illustrator/Lightroom/Premiere, \LaTeX		

Interests

Cooking

Graphic Design

Photography

Music