

PRANSHU GUPTA

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Atlanta, Georgia

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY *Atlanta, Georgia*

MSCS, Machine Learning, May 2020
GPA: 3.9/4

INDIAN INSTITUTE OF TECHNOLOGY *Kanpur, India*

B.Tech. Computer Science and Engineering, May 2017
GPA: 8/10

SKILLS

Languages

Proficient - C#, Python, C/C++, HTML, CSS, JavaScript, SQL
Familiar - TypeScript, PHP, Java

Machine Learning

PyTorch, ScikitLearn, OpenCV

Cloud

Microsoft Azure

Web Dev

Django, Angular, NodeJS

INSTRUCTOR

INTRODUCTION TO WEB DEVELOPMENT

Association for Computing Activities, IITK, May 2017
Trained 40 Students (20 days)

HACKATHONS

TreeHacks 2020 Participant

DigiPrint, **2nd place among Microsoft Campus Hires** 2017

COURSES

Machine Learning, Deep Learning, Reinforcement Learning, Computer Graphics, Computer Vision, Computational Photography, Computer Animation, AI and Ethics

PROFESSIONAL EXPERIENCE

Software Development Engineer II _____

MICROSOFT, Redmond USA / June 2020 - Present

- Designing and developing modules for Azure Resource Manager.

Software Development Engineer _____

MICROSOFT, India / June 2017 – August 2019

Integral role in designing and developing modules for a Customer Data Enrichment Service, which serves the marketing personnel of Microsoft and helps them create better sales opportunities that generate higher revenue.

- Designed and implemented a fault-tolerant, serverless data flow orchestration layer using Azure Function apps. This delivered a **3x performance improvement & an operational cost reduction of 90%**.

Software Development Intern _____

MICROSOFT, India / May 2016 – June 2016

- Implemented an AI powered chat bot using Microsoft Bot Framework and Azure Cognitive APIs, allowing users to interact with Dynamics365 in natural language, **reducing the clicks for certain workflows by 50%**.

Software Development Intern _____

GREENDZINE TECHNOLOGIES, India / May 2015 – July 2015

- Implemented an algorithm to optimize order picking process at e-commerce distribution centers by computing an optimal path for the order picking vehicle, thus, **reducing the manual effort by 20%**.

RESEARCH EXPERIENCE

Graduate Research Assistant _____

SOCWEB LAB, Prof. Munmun De Choudhury / August 2019 – May 2020

Building statistical and machine learning models for **the Tesserae Project** to understand aspects of physical and mental wellbeing of individuals.

- Hawthorne effect in longitudinal multimodal sensing participation.
- Psychological effects of active shooter drills on school communities.

MAGIC LAB, Prof. Jarek Rossignac / January 2020 – May 2020

- Developed algorithms for constructing field aligned triangle meshes.
- Worked on mesh subdivision, field tracing & aligned mesh construction.

ACADEMIC PROJECTS

Deep Image Captioning, Prof. Dhruv Batra | Georgia Tech

- Deep reinforcement learning-based image captioning with embedding reward by modelling the task as a decision-making problem.

Content Aware Image Completion, Prof. Vinay P. Namboodiri | IITK

- Image inpainting by computing statistics of patch offsets and using nearest neighbor fields and energy optimization by graph cuts.
- Can fill regions which are **up to 20% in size** of the actual image.

PyCS: A Compiler for C# in Python, Prof. Subhajit Roy | IITK

- A compiler built in Python to translate C# code into Intel x86.
- Supports **70% of ANTLR's C# grammar** specification