

PRANSHU GUPTA

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Atlanta, Georgia

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY *Atlanta, Georgia*

MSCS, Machine Learning, Dec 2020
GPA: 3.67/4

INDIAN INSTITUTE OF TECHNOLOGY *Kanpur, India*

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

INSTRUCTOR

INTRODUCTION TO WEB DEVELOPMENT

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

SKILLS

Languages

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

Web Dev

Django, Angular, NodeJS

Machine Learning

PyTorch, ScikitLearn, OpenCV

Cloud

Microsoft Azure, Function Apps, Logic Apps, Service Bus, Cognitive APIs, Key Vault, App Service

HACKATHON

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

COURSES

Machine Learning, Deep Learning, Reinforcement Learning

Computer Graphics, Computer Vision, Computational Photography

PROFESSIONAL EXPERIENCE

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%**.
- Implemented a data standardization service using Azure Cognitive Services to standardize around 100K ambiguous user inputs/day in real time, enabling better insights from the data.
- Contributed to Microsoft VS Code** on GitHub, to help enable strict null check tests across the codebase.
- Developed features for the front end of the Customer Data Enrichment Service. Optimized bulk file upload component of the app to **improve performance by 40x**.
- Responsible for end to end ownership of user stories including Development, Unit Testing, Functional Testing, Accessibility Testing, Security and CI/CD.

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.
- This reduced the clicks required 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%**.
- Headed the design and development of the organization's website**, customer and data management portals.

PROJECTS

Project Tesserae, IARPA | SocWEB Lab, Georgia Tech

- Utilizing multimodal data streams with social media to predict and characterize attributes of physical and mental well-being of individuals.
- Ongoing project on Hawthorne Effect in online activity.

Content Aware Image Completion, Prof. Vinay P. Nambodiri | 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

Renju: A board game in Python, Programming Club | IITK

- Implemented an AI player for the Japanese board game Renju, using Minimax and $\alpha - \beta$ pruning algorithms.
- Achieved a **winning rate of 80% against humans**