PRANSHU GUPTA

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Atlanta, Georgia

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY *Atlanta, Georgia*

MS Computer Science, Enrolled

GPA: 3.67/4

INDIAN INSTITUTE OF TECHNOLOGY *Kanpur, India*

B.Tech. Computer Science and Engineering, May 2017

GPA: 8/10

TRAINER

INTRODUCTION TO WEB DEVELOPMENT

Association for Computing Activities, IITK, 2017

Trained 40 Students

SKILLS

PyTorch, ScikitLearn, OpenCV

Microsoft Azure

C/C++, C#, Python
HTML, CSS, JavaScript

Django, Angular

HACKATHON

DigiPrint, 2nd place among Microsoft Campus Hires 2017

COURSES

Machine Learning, Deep Learning, Reinforcement Learning, Computer Graphics, Computational Photography, Computer Vision, AI, Compiler Design, Database Systems, Systems Security

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, allowing users to interact with Dynamics365 in natural language.

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.

PROJECTS

PROJECT TESSERAE, IARPA | SocWEB Lab, Georgia Tech

Utilizing multimodal data streams with social media to predict and characterize various attributes of physical and mental well-being of individuals, with the help of various natural language processing, machine learning and statistical modelling techniques.

Content Aware Image Completion, Prof. Vinay P. Namboodiri | IITK
Image inpainting by computing offset statistics of similar patches in the input image, using nearest neighbor fields and energy optimization by graph cuts.

Survey: Algorithms Inspired by Nature, Prof. Arnab Bhattacharya | IITK
A study of neural and evolutionary algorithms like ant colony, particle swarm optimization, simulated annealing and genetic algorithms.

Crowd Behavior Analysis, Prof. Vinay P. Namboodiri | IITK
Detecting abnormal activity from individual trajectories in crowd data by partition-and-detect methodology.

PyCS: A Compiler for C# in Python, Prof. Subhajit Roy | IITK
An end to end compiler built in Python to translate C# code into Intel x86.

Skylines for multi-criteria Data Analysis, Prof. Arnab Bhattacharya | IITK
Extracting representative skylines from noisy data based on multiple criterions.

Renju: A board game in Python, Programming Club | IITK
AI player of Japanese board game Renju, using Minimax and $\alpha - \beta$ pruning algorithms.