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| PRANSHU GUPTA  <https://pranshu258.github.io/>  [prangupt@gatech.edu](mailto:prangupt@gatech.edu)  (+1)9282658937  Atlanta, Georgia EDUCATION **GEORGIA INSTITUTE OF TECHNOLOGY** *Atlanta, Georgia*  MS Computer Science, May 2020  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 EXPERIENCESoftware 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**](https://tesserae.nd.edu/), 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**](https://github.com/Pranshu258/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**](https://arxiv.org/abs/1903.01893), 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**](https://github.com/Pranshu258/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**](https://github.com/Pranshu258/csharp-compiler), 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**](https://github.com/Pranshu258/RSNC), Prof. Arnab Bhattacharya | IITK Extracting representative skylines from noisy data based on multiple criterions. [**Renju: A board game in Python**](https://github.com/Pranshu258/Renju), Programming Club | IITK AI player of Japanese board game Renju, using Minimax and pruning algorithms |