Pranshu Gupta

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# PROFESSIONAL EXPERIENCE

**Microsoft**, Redmond, USA / Software Development Engineer II / June 2020 – Present

* Designing and developing modules for Azure Resource Manager impacting millions of users.

**Microsoft**, Hyderabad, India / Software Development Engineer / June 2017 – August 2019

* Integral role in designing and implementing modules for customer data enrichment service, which helps thousands of marketers create sales opportunities that generate higher revenue.
* **Improved performance by 3x and slashed cost by 90%** by authoring a serverless architecture for the data flow orchestration layer of the service using Azure Function Apps.
* **Achieved a 40x speed-up** in bulk file upload service by optimizing SQL programs.

**Microsoft**, Hyderabad, India / Software Development Intern / May 2016 – June 2016

* Reduced the user clicks required for certain workflows **by 50%** in Dynamics CRM by implementing an AI powered chatbot using Bot Framework and Azure Cognitive services.

**Greendzine Technologies**, Bangalore, India / Software Development Intern / May 2015 – July 2015

* Led the development of the company website and the product management portal.
* Reduced warehouse order picking time **by 20%** by developing an optimal path selection algorithm.

# TECHNICAL SKILLS

**Languages :** C#, Python, C/C++, HTML, CSS, JavaScript, SQL, Java

**Machine Learning :** PyTorch, scikit-learn, OpenCV, Azure ML

**Technologies :** Microsoft Azure, Django, Processing 3D, Angular, NodeJS, GIT

# EDUCATION

**Georgia Institute of Technology**, Atlanta, USA May 2020

*Master of Science in Computer Science (MSCS), Specialization in Machine Learning 3.9/4*

**Indian Institute of Technology**, Kanpur, India May 2017

*Bachelor of Technology in Computer Science and Engineering (B.Tech, CSE) 8/10*

# RESEARCH EXPERIENCE

**SocWEB Lab, Georgia Tech** / Graduate Research Assistant / August 2019 – May 2020

* Built statistical and machine learning models using multi-modal data streams with social media to predict and characterize attributes of physical and mental wellbeing of individuals.
* Studied observer effect in longitudinal multimodal sensing participation.
* Studied psychological effects of active shooter drills on school communities.

**Magic Lab, Georgia Tech** / Research Contributor / January 2020 – May 2020

* Developed computer graphics algorithms for constructing field aligned triangle meshes.
* Implemented mesh subdivision, field tracing & aligned mesh construction using Processing 3D.

# ACADEMIC PROJECTS

* Deep reinforcement learning based image captioning with embedding rewards.
* Content aware image completion by patch offset statistics (fill regions **up to 20% size** of the image).
* PyCS: A C# to x86 compiler built in Python (**70% ANTLR** **spec supported**).
* TetroBot: A 3D simulator for a tetrahedral bodied goal finding robot on a flat terrain.

# OTHER ACTIVITIES

* Developed and presented a peer to peer skill sharing app in TreeHacks 2020 at Stanford University.
* **Contributed to the open source editor** VS Code, to help enable strict null check tests.
* **Volunteered for 6 months** as a content developer for python classes at The Coding School 2019.
* **Awarded second position** as a team in Microsoft India Campus Hires Hackathon 2017.
* **Trained 40 students** in web development (20 days) at IIT Kanpur ACA Summer School 2017.