

Pranshu Gupta

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Bellevue, Washington

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

Master of Science in Computer Science (MScS), Specialization in Machine Learning

May 2020
3.9/4

Indian Institute of Technology, Kanpur, India

Bachelor of Technology in Computer Science and Engineering (B.Tech, CSE)

May 2017
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.