

Pratyush Varshney

Software Development Engineer 2 | Microsoft

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in pratyushvarshney

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Education

Indian Institute of Technology, Kanpur

- Master of Science by Research in Computer Science and Engineering
CPI: 9.00/10.00

Kanpur, India
Jan 2017 - Oct 2019

Kamla Nehru Institute of Technology

- Bachelor of Technology in Computer Science and Engineering
Percentage: 75.92 %

Sultanpur, India
Sep 2009 - Jul 2013

Experience

Amazon

Software Development Engineer 2

Jul 2022 - Present

London, United Kingdom

- Working for Prime Videos Insights team

Microsoft

Software Development Engineer 2

Dec 2020 - Jul 2022

Hyderabad, India

- Worked on the update servicing platform for core windows.
- Contributed to the in-market roll-out fit & finish of Uno-Package: combining multiple updates into one
- Implemented windows customization to remove packages from Windows OS, resulting in reduction of disk footprint of the OS image
- Delivered major design change requests, impacting more than 10M+ Windows devices.

Adobe Systems

Member of Technical Staff II

Oct 2019 - Nov 2020

Bangalore, India

- Implemented analytics on Adobe Inter-Process Communication (IPC) for cloud applications. This improved the identification of issues across modules.
- Drove end-to-end design and implementation of Introspection APIs for Unified Extensibility Platform (UXP) for Creative Cloud Extension Platform. These APIs automated the complete documentation of UXP modules without any overhead and constraints on developers.
- Developed a Logging module for the Unified Extensibility Platform for Adobe's Creative Cloud.
- Developed the DevTools for internal & external Adobe app developers on the UXP. This increased the productivity for plugin developers by providing features like templates for plugins, live debugging, loading plugins across various applications, etc.

Indian Farmers Fertilizer Cooperative

Senior Engineer

Mar 2014 - Dec 2016

New Delhi, India

- Designed and developed a Document Management System using the J2EE-struts framework to store documents in the Oracle database. This reduced the manual overhead of maintaining and securing valuable documents.
- Implemented the module of Employee Leaves in the Management Information System (MIS) for the organization
- Created and deployed new forms and reports for the Oracle ERP system as per the users' requirements.

Nokia (Formerly Alcatel-Lucent)

Software Engineer

📅 Nov 2013 - Mar 2014

📍 Gurgaon, India

- Developed a tool for testing the Session Initiation Protocol (SIP). The tool could simulate SIP calls and interact with the CAMEL stack to generate logs which were further used for debugging.
 - Implemented new functional requirements in the flexible and configurable convergent payment system - ICC.
 - Drove end-to-end delivery from requirement gathering to implementation of services for SMS and SIP.
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Aditya Birla Nuvo Limited

Internship Trainee

📅 Jun 2012 - Jul 2012

📍 Jagdishpur, India

- Developed an online Excel converter in Java for a web application. The converter generated formatted Excel reports based on the data queried from the web interface of the application.
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Research Positions

VERIMAG Institute

Visiting Research Scholar

📅 Jun 2019 - Jul 2019

📍 Grenoble, France

- Developed a framework to verify properties of Neural Network controller in a closed loop with a Non-Linear plant.

IIT Kanpur

Senior Student Research Associate

📅 Jan 2017 - Oct 2019

📍 Kanpur, India

- Worked on the synthesis and verification of the controller of the Unmanned Aerial Vehicles (UAV) using Deep learning. The work also focused on the control synthesis of UAVs using Reinforcement Learning techniques.
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Publication

👥 Conference Proceedings

- Varshney, P., Nagar, G., & Saha, I. (2019). Deepcontrol: Energy-efficient control of a quadrotor using a deep neural network. In *2019 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)* (pp. 43–50). IEEE.

Technical Skills

- **Languages:** C/C++, Python, Java, JavaScript
- **Libraries/Technologies:** Nodejs, Component Object Model (COM), Oracle Application Development Framework(ADF), J2EE-Struts, Nodejs, Oracle Forms and Reports
- **Robotics:** Robot Operating System (ROS), Gazebo, RotorS, px4-autopilot
- **Machine Learning:** Reinforcement Learning, Tensorflow, Supervised Learning, Eigen, Numpy