

Priyan Vaithilingam

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Work Experience

- Research Fellow, Microsoft Research Labs India Pvt. Ltd.** Mar 2016 – Present
- Working on Relevance based Email Search.
 - Working on Corporate Priority Inbox.
- Software Engineer, Microsoft India (R&D) Pvt. Ltd.** Jun 2015 – Mar 2016
- Worked on SQL Server, .Net Technologies
 - Migrated the project to Microsoft's internal Data Storage system for Big Data Application
 - Acted as an journalist responsible for the Microsoft's internal magazine.
- E-Leader (and Co-Founder), Student Entrepreneurship Support Cell, IIT Indore** Aug 2013 - Jan 2015
- Laid the initial foundation for the cell.
 - Secured funding to support start-ups within the institute
 - Laid a ten-year plan for the cell to realize its vision
 - Won two National Level awards for the cell, during my leadership.
- Software Developer Intern, Microsoft India (R&D) Pvt. Ltd.** May 2014 - Jul 2014
- Enterprise feedback management – For Microsoft Customer service
 - Made backend for Battleship game for XBOX – Kinect
 - Secured a full time job at Microsoft from June 2015 (Pre-Placed via internship).

Educational Qualification

Institute	Year of Passing	Board	Qualification	Percentage/CPI
Indian Institute of Technology (IIT), Indore	2015	-	B.Tech	9.02 (out of 10)
Maharishi Vidya Mandir, Chennai	2011	CBSE	12 th	94.0
Kendriya Vidyalaya, Coimbatore	2009	CBSE	10 th	80.0

Areas of Interest

- ✓ Artificial Intelligence and Machine Learning
- ✓ Computer Vision and Image Processing
- ✓ Algorithms and Data Structures

Completed Projects and Internships

- Enterprise Feedback Management – Internship at Microsoft India R&D Pvt. Ltd.**
Under Mrs. Madhavi Bandiathmakur,
Manager (Test), SESIT, Microsoft India R&D Pvt. Ltd.
- Smart Lock Screen for Android (B.Tech Project)**
Under Prof. Dr. Gourinath Banda,
Assistant Professor IIT Indore.
Context based Smart Lock Screen for android which helps in better security and faster unlocking of the phone based on intelligent algorithm using various sensor data. (Nominated for Best BTP award).
- Battleship Game for Xbox Kinect using Ripple SDK**
Under Mr. Bhargav Krishna,
FTE, Microsoft India R&D Pvt. Ltd.
Made the Backend API, consisting of four different AI levels for computer, for the Classic Battleship Board game, hosted in Azure. Used Managed Extensibility Framework for dynamic detection of AI algorithms.

- **Pac-Minion 3-D Maze based AI Game using OpenGL and C++**
Under Prof. Dr. Somnath Dey,
Assistant Prof IIT Indore
Made a 3-D game interface using OpenGL. AI for the ghosts. Three different AI (with increasing difficulty level) for automation of player (Computer vs Computer simulation).
- **Improving Pac-Minion gameplay using Machine Learning**
Under Prof Dr. Aruna Tiwari,
Assistant Professor, IIT Indore.
Improving the above Pac-Minion project's gameplay using Machine learning. This enables Ghosts and the Pac to evolve continuously.
- **LALR (1) based XML Parser**
Under Prof. Dr. Surya Prakash,
Assistant Professor IIT Indore
Made an LALR(1) Parser using Bison (Parser Generator) and FLEX (Scanner Generator).
- **Finding Similar Images using Earth Mover's Distance:**
Under Prof Dr. Kapil Ahuja and Prof Dr. Dr. Vivek Kanhangad
Assistant Professor, IIT Indore
Finding similar images using EMD as mentioned in the research paper by Yossi Rubner, Carlo Tomasi, and Leonidas J. Guibas, using MatLab. (Implemented the optimization code by ourselves)

Technical Skills

- **Programming Languages:** C, C++, C#, Java, LISP, and Python.
- **Other Skills:** Open CV, MatLab, Xilinx and Altera Quartus, MIPS 32bit Assembly Language, SQL Server Reporting Services.
- Experience in using Windows and Linux.

Academic Achievements

- Cleared **IIT-JEE** examination with **All-India OBC 1616 rank**.
- Cleared **I-SAT** (Scholarship aptitude test by Indian Institute of Space Sciences and Technology) with **all India Rank 222**
- Cleared written test of **KVPY 2010**, Olympiad conducted by Indian Institute of Science (IISc), India.
- Achieved Merit in Science Olympiad in class 7th and 8th conducted by Science Olympiad foundation.
- Certified in level-1 in Robotics workshop held in IIT Indore.

Extra-Curricular Activities

- **E-Leader (And Co-Founder), Student Entrepreneurship Support Cell**, IIT Indore.
- Won 2nd Place in **National Entrepreneurship Challenge 2013, conducted by IIT Bombay**.
- **Student Member**, Computer Science Engineering Department, Non-core Department, **Placement Office**, IIT Indore.
- **Organizer – Technophilia (Tech Quiz) - FLUXUS 2013, 2014**.
- **Organizer, Dramatics – FLUXUS 2013**.
- **Marketing Member - FLUXUS, 2012**.
- **Student Member** in Cultural Committee, IIT Indore.
- **Student Member** in Photography club, IIT Indore.
- Participated in **Crescendo** (Annual IIT Indore Cultural Fest) in Band Performance (Played Synthesizer).
- Played **Roller Skating** in Regional level.

Declaration

I hereby declare that the information given above is true to the best of my knowledge, as of August 2016

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