Priyan **Vaithilingam**

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Education

University of California, San Diego   *San Diego, USA*
M.S. IN COMPUTER SCIENCE   *Sept 2018 - June 2020 (Expected)*

Indian Institute of Technology (IIT), Indore   *Indore, India*
B.TECH. IN COMPUTER SCIENCE AND ENGINEERING | CUM. GPA: 9/10   *June 2011 - May 2015*

Work Experience

***Research Fellow*, Microsoft Research India**   *Bangalore, India*
- Honorable mention paper in CHI 2018 | Worldwide 2nd place in Microsoft Hackathon 2017.   *Mar. 2016 - July 2018*
- Research in Human Computer Interaction, Programming Languages and Information Retrieval.

***Software Engineer*, Microsoft India**   *Hyderabad, India*
- Migrated the data services tool to Cosmos: Microsoft's internal big data platform.   *June 2015 - Mar. 2016*
- Promoted from summer intern to full time software engineer.

***Co-Founder*, Student Entrepreneurship Support Cell, IIT Indore**   *Indore, India*
- Secured funding for incubating 5 start-ups. | 2nd Place, National Entrepreneurship Challenge. *Aug. 2013 - Jan. 2015*
- Led a 5 people team to foster entrepreneurship within the institute.

Relevant Projects (https://priyan.info/projects)

PSharp: Safer Asynchronous Programming Language   *Microsoft Research*
- A framework for building, analyzing, systematically testing highly asynchronous software.
- Enabled large scale testing of PSharp binaries in cloud, and dynamic race detection.

Prius: Priority Inbox for Outlook   *Microsoft Research*
- Refines user's mailbox by highlighting high priority e-mails for immediate action.
- Developed ML models using C# to analyze user's behavior and provide personalized experience.

Email Insights: Faster and Relevant Email Search   *Microsoft Research*
- Blazing fast email search that ranks emails based on relevance.
- Deployed the fuzzy search algorithm written in C# to Microsoft Outlook single handedly.

CodeTalk: Improving IDE Accessibility for Visually Impaired Developers   *Microsoft Research*
- Enhanced visually impaired developers' productivity by 40% by developing a tool with novel
  code navigation and audio debugging techniques using C# and Python.
- Honorable Mention ACM SIGCHI 2018 | Open sourced in GitHub

Interactive Cane: Smart walking stick for Visually Impaired people   *Microsoft Research*
- Intelligent walking stick that assists visually impaired people in navigation.
- Optimized C/C++ code to enable real-time streaming of sensor data directly to Azure IoT Hub.

SmartLockscreen: A lock-screen which understands your environment   *IIT Indore*
- Intelligent lock screen application for android phones (using android studio and Java) that
  adapts the security level based on user-context.
- Developed sensor based context-detection technique and secure user profiles.

Skills

Languages: C, C++, C#, Java, Python, JavaScript, HTML, SQL.
Tools & Frameworks: MATLAB, Android Studio, .Net, Git, VSTF, Arduino, Azure - Computing and Storage.

Publications

CodeTalk: Improving programming environment accessibility for Visually Impaired developers
ACM SIGCHI 2018 (Honorable Mention)
Venkatesh Potluri, **Priyan Vaithilingam**, Suresh Iyengar, Vidya Y, Manohar Swaminathan, Gopal Srinivasa

Awards

Microsoft Hackathon, Worldwide 2nd Place (developer category)   *2017*
National Entrepreneurship Challenge, 2nd Place   *2015*