

Priyan Vaithilingam

☎ (+1) 858-257-7317 | ✉ priyanmuthu@gmail.com | 🏠 priyan.info | 📷 priyanmuthu | 🌐 priyanv

Education

University of California, San Diego

San Diego, USA

M.S. IN COMPUTER SCIENCE | GPA: 3.94/4

Sept 2018 - June 2020 (Expected)

Indian Institute of Technology (IIT), Indore

Indore, India

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING | GPA: 9/10

June 2011 - May 2015

Publications

Bespoke: Interactively Synthesizing Custom GUIs from Command-Line Applications By Demonstration.

User Interface Software and Technology (UIST), 2019

Priyan Vaithilingam, Philip Guo

CodeTalk: Improving programming environment accessibility for Visually Impaired developers

CHI 2018 (**Honorable Mention Award**) (* co-first authors)

Venkatesh Potluri*, **Priyan Vaithilingam***, Suresh Iyengar, Vidya Y, Manohar Swaminathan, Gopal Srinivasa

Work Experience

Software Engineer Intern, Microsoft

Redmond, USA

- Implemented and shipped Azure MySQL Query Recommender - Identify and automatically rewrite poorly written SQL queries for better performance.

June 2019 - Sep 2019

Research Fellow, Microsoft Research India

Bangalore, India

- Honorable mention paper in CHI 2018 | Worldwide 2nd place in Microsoft Hackathon 2017.
- Research in Human Computer Interaction, Programming Languages and Information Retrieval.

Mar. 2016 - July 2018

Relevant Projects [\(https://priyan.info/projects\)](https://priyan.info/projects)

Bespoke: Synthesizing GUI for command line applications by demonstration

UCSD

- Automatically synthesizes custom GUIs for command line application by demonstration.
- Published in UIST 2019

CodeTalk: Improving Visual Studio 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 Award CHI 2018 | Open sourced in GitHub

Microsoft Garage's Email Insights: Faster and Relevant Email Search

Microsoft Research

- A personalized email search that ranks emails based on relevance.
- Published the fuzzy search algorithm (C#) to Microsoft Outlook.

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.

PSharp: Safer Asynchronous Programming Language

Microsoft Research

- Enabled large scale testing of PSharp binaries in cloud (Azure).
- Open sourced in GitHub, used by teams in Microsoft Azure.

SmartLockscreen: A lock-screen which understands your environment

IIT Indore

- Designed an 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.

Teaching Experience

Probabilistic Reasoning and Decision-Making, Teaching Assistant, UCSD

Fall 19

HCI Programming Studio, Teaching Assistant, UCSD

Spring 19

HCI Interaction Design, Teaching Assistant, UCSD

Fall 18

Introduction to Azure Distributed Computing, Microsoft Research India

June 2017/18