

Priyan Vaithilingam

✉ pvaithilingam@g.harvard.edu | 🏠 priyan.info | 📧 priyanmuthu | 🌐 priyanv

Education

Harvard University	Boston, USA
PHD IN COMPUTER SCIENCE CGPA*: 4/4 ADVISED BY DR. ELENA GLASSMAN	July 2020 - Present
University of California, San Diego	San Diego, USA
M.S. IN COMPUTER SCIENCE GPA: 3.96/4 ADVISED BY DR. PHILIP GUO	Sept 2018 - June 2020
Indian Institute of Technology (IIT), Indore	Indore, India
B.TECH. IN COMPUTER SCIENCE AND ENGINEERING GPA: 9/10	June 2011 - May 2015

Relevant Work Experience

Research Intern, Microsoft	Redmond, USA
<ul style="list-style-type: none">Re-imagining interaction techniques for AI-assisted data visualization toolsFocusing on dynamic UI for editing and interacting with visualizations that adapts to user intent.	May 2023 - Aug 2023
Research Intern, Microsoft	Remote
<ul style="list-style-type: none">Re-imagining interaction techniques for AI-based automated programming toolsResearch on improving Intellicode user experience in Visual Studio	Sept 2021 - Aug 2022
Research Fellow, Microsoft Research India	Bangalore, India
<ul style="list-style-type: none">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 Publications

Imagining a Future of Designing with AI: Dynamic Grounding, Constructive Negotiation, and Sustainable Motivations

DIS 2024

Priyan Vaithilingam, Ian Arawjo, Elena L. Glassman

DynaVis: Dynamically Synthesized UI Widgets for Visualization Editing

CHI 2024 (Best Paper Award)

Priyan Vaithilingam, Elena Glassman, Jeevana Priya Inala

ChainForge: A Visual Toolkit for Prompt Engineering and LLM Hypothesis Testing

CHI 2024 (Honorable Mention Award)

Ian Arawjo, Priyan Vaithilingam, Martin Wattenberg, Elena Glassman

Towards More Effective AI-Assisted Programming: A Systematic Design Exploration to Improve Visual Studio IntelliCode's User Experience

ICSE SEIP 2023

Priyan Vaithilingam, et al.

Expectation vs. Experience: Evaluating the Usability of Code Generation Tools Powered by Large Language Models

CHI LBW 2022

Priyan Vaithilingam, Tianyi Zhang, Elena L. Glassman

Assuage: Assembly Synthesis Using A Guided Exploration.

UIST 2021

Jingmei Hu, Priyan Vaithilingam, Stephen Chong, Margo Seltzer, Elena L. Glassman

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

UIST 2019

Priyan Vaithilingam, Philip Guo

CodeTalk: Improving programming environment accessibility for Visually Impaired developers

CHI 2018 (Honorable Mention Award)

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