

# Pavithren V S Pakianathan

[pavithren.com](http://pavithren.com) | [linkedin.com/in/pavithren](https://www.linkedin.com/in/pavithren) | Singaporean

## WORK EXPERIENCE

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### Pre-Doctoral Researcher

Ludwig Boltzmann Institute for Digital Health and Prevention Sep 2022 – Ongoing

- Ph.D. research: Human Centered Approach for Designing Data Enabled Tools in Digital Health
- Advised by [Dr.-Ing. Jan David Smeddinck](#)

### Research Associate

Saw Swee Hock School of Public Health, National University of Singapore Sep 2021 – Aug 2022

- Conducted user studies for digital patient decision aids with patients and clinicians
- Researched privacy and digital delegation in healthcare systems.
- Solution Architect for migration and re-architecture of Digital Health Intervention Platform

### Technical Consultant

Hitachi, Singapore Sep 2017 – Sep 2021

- Managed cross-functional team to deliver chatbot solution for workplace optimization
- Cloud migration expert - led migration of 2 enterprise platforms to the cloud.

## RESEARCH EXPERIENCE

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### Masters Research (Part-time)

Singapore University of Technology and Design Sep 2018 – Aug 2021

- Thesis titled, "Towards Inclusive Design of Privacy and Security". Conducted studies, workshops, and technology probe with 70 participants - older adults, design, HCI and security experts and caregivers.
- Co-authored a full paper at ACM CHI Conference on Human Factors in Computing (CHI) '22
- Presented a poster at Symposium of Usable Privacy and Security (SOUPS) '20

### Undergraduate Researcher

Singapore University of Technology and Design Sep 2016 – Aug 2017

- Specialization in Human-Computer Interaction. Secured grant for undergraduate research and co-authored a short paper presented at OzCHI 2016.

## EDUCATION

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### Ph.D. in Human-Centered Design for Digital Health

Ludwig-Maximilians-Universität München, Germany | Apr 2023 – Present

- Advised by [Prof. Albrecht Schmidt](#)

### Master of Engineering in Information Systems Technology and Design (Part-time)

Singapore University of Technology and Design | Sep 2018 – Aug 2021

- National Cyber Security Scholarship recipient.
- GPA 3.5/5

### Bachelor of Engineering in Information Systems Technology and Design

Singapore University of Technology and Design May 2014 – Sep 2017

- James Dyson Award Winner.
- GPA 4.21/5, **Magna Cum Laude**

### Diploma in Computer Engineering with Merit (Silver Medalist)

Temasek Polytechnic | Singapore May 2008 – Apr 2011

- Specialisation in Software and Hardware Engineering
- GPA 3.99/4

## PUBLICATIONS

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1. [Proxy medical decision-making: national survey](#). **BMJ Supportive & Palliative Care**. 2024
2. [Multi-Stakeholder Design for Complex Digital Health Systems](#). **dHealth**. 2023
3. [Does Mode of Digital Contact Tracing Affect User Willingness to Share Information?](#) **CHI**. 2022
4. [Towards Inclusive Design for Privacy and Security: Perspectives from an Aging Society](#). **SOUPS**. 2020

## Scholarships

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- National Cybersecurity Postgraduate Scholarship awarded by Infocomm Media Development Authority (IMDA) and National Research Foundation, (NRF) 2018
- Singapore Industry Scholarship (SgIS) awarded by Ministry of Education (MOE), and Singapore Economic Development Board (EDB) 2013

## ACHIEVEMENTS

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- James Dyson Award, National Level (Singapore)- [Project PERI](#) 2017
- People's Association Community Long Service Award - 10 years of service 2017
- Electrolux Innovation Award - KTH Open and User Innovation course 2016
- Wilmar Global Exchange Award - Student exchange to Sweden 2016
- Best Signal Operator, Signal Operator Course, Signals Institute - National Service 2012
- SINDA Excellence Award - Awarded to top Indian students in Singapore 2011
- Temasek Polytechnic Course Silver Medalist 2011
- Temasek Polytechnic Director's List - Top 10% of Cohort 2010 and 2009

## SKILLS

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- Research: Ethnography, participatory design, usability testing, mixed methods and statistical analysis
- Technical: Enterprise solution architecture (AWS and Google Cloud), system and network administration, prototype development, Python, R, Flutter, Figma, AdobeXD.
- Certifications: AWS Solution Architect, Google Cloud Professional, Certified Scrum Master.

## LEADERSHIP EXPERIENCE

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- Member, Singapore Indian Development Association Youth Club 2021-2022
- Member, Alumni Advisory Board, ISTD Pillar, SUTD 2018 – 2022
- Organizer and Project Lead, [Deafaloper Workshops](#) - Maker workshops for the Deaf 2018
- President, Rotaract Club @ SUTD, SUTD 2015 – 2016
- President, Information Systems Technology and Design Student Board, SUTD 2015 – 2016

## VOLUNTEERING AND SOCIAL IMPACT

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- Project Mentor, Tech4Good - Inclusive Designathon, Engineering Good 2021 & 2022
- Community Service Volunteer, People's Association, Singapore 2007 – 2021
- Design Workshop Facilitator, SUTD-CGH COVID-19 Seminar and Ideation Challenge 2020
- Design Mentor, Inclusive Spaces @ Frasers Property Designathon 2019
- Venue Operations Assistant, Tampines Bike Park, Singapore Youth Olympic Games 2010
- English Trainer for Lao Youths, Laos Overseas Community Project, Temasek Polytechnic 2010

## Certifications

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- edX - [Behavioural Economics in Action](#) via University of Toronto July 2022
- edX - [Health behaviors: from individuals to larger contexts](#) via National University of Singapore Dec 2021
- AWS - [Solution Architect Professional](#) Sept 2021
- [Certified Scrum Master](#) May 2020
- Google Cloud [Professional Cloud Architect](#) Aug 2019
- [Certified Scrum Product Owner](#) Dec 2019