**Tya (Tee) Chuanromanee**5625 Osage Lake Dr Apt #2B, Mishawaka, IN 46545  
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**01. EDUCATION**

**University of Notre Dame,**Notre Dame, IN Expected 05. 2023

*PhD: Computer Science*  
GPA: 3.91  
Human-Computer Interaction  
Advisor: Ronald Metoyer

**Kettering University,** Flint, MI 06.2018

*BSCS: Computer Science with Economics minor*  
GPA: 3.95, Summa Cum Laude, Dean’s List  
Upsilon Pi Epsilon Computer Science Honor Society, Member  
Thesis: *Diagnostic Assistance Software for Mental Healthcare Providers,* Pass With Distinction

**Milwaukee School of Engineering,** Milwaukee, WI 09.2014 - 05.2015

Mechanical Engineering major  
GPA: 3.91, Dean’s List with High Honors

**02. EXPERIENCE**

**Founder | Transverse,**Mishawaka, IN 04.2019 - present

* Develop Android application for mental health management for transgender individuals using Java
* Create and evaluate paper and digital prototypes using Figma and Maze
* Lead meetings and coordinate organizational operations
* Apply for grants and funding

**Graduate Research Assistant | University of Notre Dame,**Notre Dame, IN 08.2018 - present

* Conduct and analyze semi-structured interviews of user population using open, axial, and selective coding
* Designed and implemented Mechanical Turk experiments to evaluate cognitive biases
* ﻿Design and conduct user studies and participatory design workshops
* Created visualizations using D3.js and performed usability testing to evaluate effectiveness

**Undergraduate Research Assistant | Kettering University,**Flint, MI 06.2017 - 08.2018

* Wrote and implemented image analysis techniques including Elliptical Fourier Descriptors and landmark analysis, and analysis scripts including using Matlab
* Created and tested a graphical user interface

**Peer Tutor | Kettering University,**Flint, MI 10.2016 - 08.2018

* Supported students' academic progress through tutoring in both individual and group settings
* Obtained Level 2 Tutor certification from College Reading and Learning Association

**Software Engineer Co-op | Robert Bosch, LLC,** Plymouth, MI01.2016 - 03.2017

* Wrote and supported customer and internal scripts in Python, Perl, and VBA
* Tested embedded software modules in ASCET Database using code coverage analysis
* Implemented CERT analysis system for project-wide security assessment

**Test and Validation Co-op | Robert Bosch, LLC,** Novi, MI07.2015 - 09.2015

* Identified and documented bugs in automotive infotainment systems
* Worked with customer on multiple testing trips to locate bugs and verify fixes
* Wrote and improved technical documentation

**03. SKILLS**

**Programming Languages:** Java, JavaScript, Python, C, SQL, Haskell

**User Research:** Interviews and Observations, Usability Studies, Affinity Diagramming, Participatory Design, Mechanical Turk Studies

**Interface Design:** D3.js, Figma, Maze, Zeplin, Adobe XD, Adobe Photoshop

**Website Development:** HTML, CSS, PHP, MySQL, Bootstrap, Django, Drupal, Wordpress

**Software:** Android Studio, Linux operating systems, Git, MATLAB App Designer

**Data Collection and Analysis**: Open and Axial Coding, SPSS, Atlas.TI

**04. SELECTED PUBLICATIONS**

**Chuanromanee, T.** & Metoyer, R. (2021). Understanding Transgender People’s Technology  
Needs to Support Health and Transition. Submitted.

**Chuanromanee, T.** & Metoyer, R. (2021). A Crowdsourced Exploration of the Effects of  
Visualization on Confirmation Bias in Decision-Making in Non-Experts. Submitted.

Metoyer, R., **Chuanromanee, T.,** Girgis, G. M., Zhi, Q., & Kinyon, E. (2020). Supporting  
Storytelling with Evidence in Holistic Review Processes: A Participatory Design Approach. Proceedings of the ACM on Human-Computer Interaction, 4(1).

**05. HONORS AND AWARDS**

* Leadership Advancing Socially Engaged Research (2020-2021)
* GEM Associate Fellowship (2019-2020)
* James and Eileen Simon Graduate Fellowship (2018-2019)
* Outstanding Thesis Award (2018)
* President’s Medal (2018)
* Kettering Merit Scholarship Award (2015-2018)
* Milwaukee School of Engineering Full Tuition Presidential Scholarship Award (2014-2015)
* Siemens Merit Scholarship Award (2014-2018)

**06. SELECTED VOLUNTEER EXPERIENCE**

**Soup Kitchen Volunteer**, First United Methodist Church of South Bend (08.2020 - present)

**Blog Editor,** Irish 4 Reproductive Health (12.2018 - present)

**Receptionist and Data Entry,** The LGBTQ Center (12.2018 - present)

**Treasurer**, Amazing Grace Counseling Outreach (05.2012 - 09.2019)