

Tya (Tee) Chuanromanee

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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

- 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, MI

07.2015 - 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)