

Tya Chuanromanee

5625 Osage Lake Dr Apt #2B, Mishawaka, IN 46545

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Education

- **University of Notre Dame**, Notre Dame, IN Expected May 2023
 - *PhD: Computer Science*
 - GPA: 3.909
 - Human-Computer Interaction
 - Advisor: Ronald Metoyer
- **Kettering University**, Flint, MI June 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 September 2014-May 2015
 - Mechanical Engineering major
 - GPA: 3.91, Dean's List with High Honors

Experience

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| Founder | Transverse , Mishawaka, IN | April 2019-present |
| <ul style="list-style-type: none">• Design, develop, and test mobile application for mental health and dysphoria management for transgender individuals• Lead meetings and coordinate organizational operations• Apply for grants and funding | | |
| Graduate Research Assistant | University of Notre Dame , Notre Dame, IN | August 2018-present |
| <ul style="list-style-type: none">• Conduct and analyze semi-structured interviews to inform design of a mobile application• Create and evaluate paper and digital prototypes• Design and implement Mechanical Turk experiments to evaluate cognitive biases• Design and conduct user studies and participatory design workshops• Built a mobile breathing visualizations app and performed usability testing to evaluate its effectiveness | | |
| Undergraduate Research Assistant | Kettering University , Flint, MI | June 2017-August 2018 |
| <ul style="list-style-type: none">• Wrote and implemented image analysis techniques including Elliptical Fourier Descriptors and landmark analysis• Write data analysis scripts including principal component analysis using Matlab• Created and tested graphical user interface | | |
| Peer Tutor | Kettering University , Flint, MI | October 2016-June 2018 |
| <ul style="list-style-type: none">• 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, MI | January 2016-March 2017 |
| <ul style="list-style-type: none">• 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 | | |

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

Related Experience

Blog Editor	Irish 4 Reproductive Health , South Bend, IN	December 2018-present
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- Maintain organization website, keep blog updated, and recruit content contributors
- Attend regular board meetings and assist in event organization

Receptionist	The LGBTQ Center , South Bend, IN	December 2018-present
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- Greet walk-in visitors, answer phone calls, and managed community library
- Perform data entry for diversity training sessions

Treasurer	Amazing Grace Counseling Outreach , Ann Arbor, MI	May 2012-September 2019
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- Keep records of finances for organization and prepare quarterly and annual financial reports for organization
- Manage organization website

Skills

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- **Programming Languages:** Python, C, Java, MATLAB, SQL, Haskell, Perl, VBA
 - **Machine Learning:** RNN, CNN, Keras, Theano; Sampling and training data; Network architecture
 - **Website Development:** HTML, CSS, PHP, JavaScript, MySQL, Bootstrap, Django, Drupal, Wordpress
 - **Software:** Atlas.TI, Figma, Zeplin, Android Studio, Windows and Linux operating systems, Git, Microsoft Office Suite, MATLAB App Designer, SolidWorks, Adobe Photoshop, Intuit QuickBooks
 - **Data Collection and Analysis:** Open Coding, Affinity Diagramming, Participatory Design
 - **Teaching and Tutoring:** Computer Science and Engineering: Computing and Algorithms I-III, Programming Paradigms, Operating Systems, Web Software, Functional Languages, Digital Systems, Microcomputers I-II; Mathematics: Calculus I-III, Differential Equations

Selected Publications

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- **Chuanromanee, T.** & Metoyer, R. 2021. Understanding Transgender People's Technology Needs to Support Health and Transition. In Preparation.
 - 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).

Honors and Awards

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- Leadership Advancing Socially Engaged Research Fellow (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); Donald Miles Memorial Scholarship (2017-2018)
 - Milwaukee School of Engineering Full Tuition Presidential Scholarship Award (2014-2015)
 - Siemens Merit Scholarship Award (2014-2018)