

Tya Chuanromanee
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Education

- **University of Notre Dame**, Notre Dame, IN Expected June 2023
 - *PhD: Computer Science*
 - GPA: 3.78
 - 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

Graduate Teaching Assistant **University of Notre Dame**, Notre Dame, IN August 2018-present

- Grade and give feedback on student homework in Programming Paradigms course
- Hold regular office hours
- Advocate for students and serve as a liaison between professors and students

Undergraduate Research Assistant **Kettering University**, Flint, MI June 2017-August 2018

- Wrote and implemented image analysis techniques including Elliptical Fourier Descriptors and landmark analysis
- Write data analysis scripts including principal component analysis using Matlab
- Set up and managed version control and project timeline using Git and GitHub
- Presented work at REU Symposium in Flint, MI, and at MASAL conference in Mount Pleasant, MI
- Paper submitted to plant biology journal

Peer Tutor **Kettering University**, Flint, MI October 2016-June 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, MI January 2016-March 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, MI July 2015-September 2015

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

Related Experience

Treasurer	Amazing Grace Counseling Outreach, Ann Arbor, MI	May 2012-September 2019
<ul style="list-style-type: none">• Keep records of finances for organization and prepare quarterly and annual financial reports for organization• Manage organization website		
Receptionist	The LGBTQ Center, South Bend, IN	December 2018-Present
<ul style="list-style-type: none">• Greet walk-in visitors and answer phone calls• Direct guests to appropriate staff members• Check books in and out of the community library for guests• Perform data entry for diversity training sessions		
Event Assistant	The LGBTQ Center, South Bend, IN	December 2018-Present
<ul style="list-style-type: none">• Set up chairs, tables, and sound system for bimonthly All Ages Drag Show• Collect event fees, make change for tips, and track attendance information• Engage with and promote the organization to potential volunteers		

Skills

- **Programming Languages:** Python, C, Java, MATLAB, SQL, Haskell, Perl, VBA
- **Machine Learning:** RNN, CNN, Keras, Theano; Sampling and training data; Network design and architecture
- **Website Development:** HTML, CSS, PHP, JavaScript, MySQL, Bootstrap, Django, Drupal, Wordpress
- **Software:** Atlas.TI, Saturate, 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

Honors and Awards

- GEM Associate Fellowship (2019-2020)
- James and Eileen Simon Graduate Fellowship (2018-2019)
- Outstanding Thesis Award (2018) - \$500
- President's Medal (2018)
- Kettering Merit Scholarship Award (2015-2018); Donald Miles Memorial Scholarship (2017-2018) - \$750
- Milwaukee School of Engineering Full Tuition Presidential Scholarship Award (2014-2015)
- Siemens Merit Scholarship Award (2014-2018) - \$1,000/year (4 years)

Training and Certifications

- URMD Grad Cohort - Computing Research Association (2019)
- Striving for Excellence in College and University Teaching - University of Notre Dame Kaneb Center for Teaching and Learning (2018)
- Responsible Conduct of Research - CITI Program (2017)
- Level 2 Certified Tutor - College Reading & Learning Association (2017)