

# Tee Chuanromanee

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## WORK EXPERIENCE

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### Southwest Airlines

March 2023 – Present

*Human Factors Engineer*

*Dallas, TX*

- Design and lead mixed-methods research projects using focus groups, interviews, flight data analysis, and conceptual design to understand factors impacting pilots' performance and safety
- Collaborate with risk management partners, project managers, consultants, and researchers to design in-situ placards to increase operational compliance during baggage loading, installed on over 800 aircraft
- Presented impactful recommendations to Directors and Vice President to install power cords on the flight deck, benefiting over 10,000 pilots
- Analyze flight safety data to reduce pilot fatigue removal rates using Python
- Create and teach biweekly Python workshops for junior researchers and expanding to cross-team audience

### Meta

May 2022 – August 2022

*UX Research Intern, Ad Experiences*

*Seattle, WA*

- Conducted interviews and card sorting studies on ad conversion experience with 18 shoppers in a rapidly-changing environment
- Convinced stakeholders using findings to name Instagram's Link History feature
- Led two design workshops with eight project managers, content designers, product designers, software engineers, and product marketing managers to determine next steps for onsite conversion

### Facebook

June 2021 - August 2021

*UX Research Intern, App Monetization*

*Remote*

- Interviewed 12 content creators to investigate content monetization pain points, which convinced stakeholders to increase the reach and audience of the Live Breaks product, expanding target verticals five-fold
- In a 10-week hackathon, conducted research that informed the design of Instagram sensitive content warnings
- Created and improved UXR internal documentation and visuals for end-to-end research procedures

### Transverse

April 2019 - October 2022

*Researcher, Mobile App Developer (Volunteer)*

*Remote*

- Developed Android application using Java for health management app
- Conducted testing of app prototype
- Led meetings and coordinated organizational operations

### University of Notre Dame

August 2018 - May 2023

*Researcher*

*Notre Dame, IN*

- Conducted two interview studies with 34 total participants and four focus groups with 21 total participants in the transgender community to investigate pain points find mitigations in using technology for gender transition
- Facilitated a series of three participatory design workshops with 9 participants to inform the design of a web app for reviewing college applications
- Conducted usability testing on mobile breathing apps with 19 users to determine most effective visualization
- Created web app using Node.js, Bootstrap, and Netlify for visualizing narratives
- Designed and developed responsive web tool for admissions counselors to evaluate college applications using React, Node.js, Bootstrap, and Heroku
- Developed static web app for mobile breathing exercises using Bootstrap and D3.js

## Kettering University

*Researcher, Computer Vision*

June 2016 - June 2018

*Flint, MI*

- Wrote and implemented image analysis techniques including Elliptical Fourier Descriptors and landmark analysis in Matlab
- Wrote and utilized data analysis scripts including principal component analysis

## Bosch

*Software Engineering Co-Op*

January 2016 - March 2017

*Plymouth, MI*

- Implemented new CERT analysis system for integrated power brake software
- Wrote scripts and macros in Python, Perl, and VBA to assist the software development and integration process
- Tested embedded software modules in ASCET Database using code coverage analysis

## Freelance

*Web Developer*

July 2011 - September 2017

*Ann Arbor, MI*

- Created and maintained an online blog presence
- Designed and developed websites for other bloggers
- Developed custom websites for clients in the food and community support businesses

## EDUCATION

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### University of Notre Dame

Notre Dame, IN

*PhD: Computer Science (Human-Computer Interaction)*

- CSE Department Outstanding Research Assistant (2023)
- GPA: 3.91/4.00

### Kettering University

Flint, MI

*BS: Computer Science with Economics Minor*

GPA: 3.95, Summa Cum Laude

- Upsilon Pi Epsilon Computer Science Honor Society
- Thesis: Diagnostic Assistance Software for Mental Healthcare Providers, Pass With Distinction

## SKILLS

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**User Research Methods:** Interviews and Observations, Ethnography, Usability Studies, Personas, Card Sorting, Participatory Design, Focus Groups, Crowdsourced Studies, In-Situ Testing, Survey Design

**Qualitative Data Analysis:** Open and Axial Coding, Thematic Analysis, Affinity Diagramming, Grounded Theory, Atlas.TI, Mural, Miro

**Quantitative Data Analysis & Modeling:** Hypothesis testing, correlation, predictive modeling, regression, classification, exploratory data analysis, factor analysis, principal component analysis

**Interface and Visualization Design:** Figma, Maze, D3.js, Tableau, Zeplin

**Programming Languages & Packages:** Python, C, JavaScript, Keras, Scipy, Pandas, Numpy, Node.js

## HONORS AND AWARDS

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CSE Department Outstanding Research Assistant (2023)

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)