

# Prachotan Reddy Bathi

[prachotanbathi.com](mailto:prachotanbathi.com)

[bathi@usc.edu](mailto:bathi@usc.edu) | (213)574-6502 | Los Angeles, Ca

## EDUCATION

### University of Southern California

Expected December 2024

Master of Science in Computer Science. GPA: 4.0

Analysis of Algorithms (Spring' 23), Database Systems (Spring' 23)

Operating Systems (Fall' 23), Autonomous Cyber-Physical Systems (Fall' 23)

### Manipal Institute of Technology

July 2018 – July 2022

Bachelor of Engineering in Computer Science and Engineering. GPA: 9.25/10.00

Big Data Specialization

Honors courses in Advanced Cryptography, Cryptanalysis, and Advanced Database Systems

## EXPERIENCE

### Student Developer and Technology Consultant

February 2023 – Present

USC Rossier School of Education | Los Angeles, California

Assisting in the planning and execution of web-app development projects, ensuring adherence to client requirements, design guidelines, and industry best practices.

### Program Associate

July 2022 – December 2022

Wells Fargo | Hyderabad, IN

Developed scalable market risk tools as part of project Vasara on the Capital Markets Risk Technology team.

Experimented with and documented guidelines for using Mockito framework for testing transformer classes.

### Intern Analyst

January 2022 – July 2022

Wells Fargo | Bengaluru, IN

Worked with the Capital Markets Technology team (Resolution and Recovery Planning) and developed robust software solutions to support risk managers.

Presented a 6S (Skills, Scalability, Security, Speed, Stability, and Success) strategy for revamping internal applications to the technology leadership.

### Technology Research Consultant

October 2021 – January 2022

Rady Faculty of Health Sciences | Winnipeg, Canada

Assessed and analyzed acquired feedback from the usability testing phase to re-amplify the application to achieve a minimum marketable product.

Managed a student-engineer team of four and used agile methodologies to make impact-driven prototyping.

### MITACS Globalink Research Intern

May 2021 – August 2021

University of Manitoba | Winnipeg, Canada

Conducted usability tests, app adjustments for the "In Your Shoes"(React build) project with Dr. Michelle Lobchuk.

Manuscripts prepared for journal publication.

## SELF-VENTURES

- **Founder** and **principal instructor** linePine Tech ([linepine.prachotanbathi.com](http://linepine.prachotanbathi.com)). Organized **Hour of Code** events to help kids understand computer intervention. Involved **course planning** and **syllabus design**.
- Founded PurSeek Tech and helped 15 small and emerging businesses with their digital presence, designing simple yet informative websites at a modest price.

## HONORS & AWARDS

- **Merit Scholarship**, Manipal Academy of Higher Education July 2018 – July 2022
- **GLOBALINK Research Intern Award**, MITACS, Canada May 2021 – August 2021
- **Best Presentation** at Dell MyPCMyStory, Dell Inc. December 2019

## SKILLS

### RESEARCH

Usability and User Testing  
Survey Design  
Focus Groups  
Heuristic Evaluation  
Literature Review

### DESIGN & DEVELOPMENT

Framer, Figma, GIMP, Illustrator  
Flutter, React/Angular, Django, Spring  
Git, Postman, Arduino, Raspberry

### LANGUAGES

Python, C/C++, Java, SQL, Bash

### OTHER

AWS Suite  
Azure Web Services  
Kubernetes/Docker  
Project Management  
Business Development

# RESEARCH PROJECTS

## Project Sociomizer

With Dr. Deepa G

JANUARY 2022 – JUNE 2022

Project Sociomizer is a user-centered tool aiming to address the anonymity concerns of users posting health care information on social media.

**Conducted** a pilot study through a survey (n=200) to understand health data privacy concerns and perceptions.

**Designed** system context diagram and the flow chart for the project after a systematic literature review of existing anonymization and encryption techniques.

## Cyber - Physical Systems Robustness Assessment

AUGUST 2021 – NOVEMBER 2021

Collaboration with Dr. Yu Liang, University of Tennessee at Chattanooga

**Assessed** cyber-physical security and robustness of civil infrastructure.

**Identified** points of compromise in urban stormwater management involving real-time control based on literature review and components of planning project.

# PUBLICATIONS

1. Lobchuk, M., Hoplock, L., Harder, N., Friesen, M., Rempel, J., & **Bathi, P.R.** (submitted). Usability Testing: In Your Shoes Online Empathy Training. 24th International Meeting on Simulation in Healthcare (IMSH 2024) January 2024 San Diego.
2. **Bathi, P.R.**, Deepa, G. (2022). Health Data, Social Media and Privacy Awareness: a pilot study. Springer Nature 3rd International Conference on Innovations in Computational Intelligence and Computer Vision. DOI: 10.1007/978-981-99-2602-2
3. **Bathi, P.R.**, Ellis, R., Liang, Y., & Reddy, J.B. (2022). Cyber-Physical Robustness Assessment of Stormwater Controls with Real-Time Mechanism for Smart and Sustainable Urban Water Resources Management. In 2022 World Environmental & Water Resources Congress, Atlanta. ASCE DOI:10.1061/9780784484258.072
4. Lobchuk, M., Friesen, M., Hoplock, L., Harder, **Bathi, P.R.** (2023). Usability testing of a Web-Based Empathy Training Portal: A Mixed Methods Study. Journal of Medical Internet Research (JMIR) Formative Research. DOI:10.2196/41222
5. Lobchuk, M., **Bathi, P.R.**, Ademeyo, A., & Livingston, A. (2021). Moderator and observer experiences and decision-making during remote usability testing of a web-based empathy training portal. *Journal of Medical Internet Research (JMIR) Formative Research*. DOI:10.2196/35319
6. **Bathi, P.R.** (2020, January 30). Health Data Privacy: Stolen medical records can compromise your identity. News Landed. <https://newsland.com/2020/01/30/health-data-privacy/>

# TALKS & PRESENTATIONS

- Market Square 2022, Risk and Reporting presentation at Wells Fargo, December 2022.
- Usable Security: An Important Dimension, Fireside Chat at Manipal Information Security Team (MIST), June 2021.
- Data Privacy 101, A Blank 101 Talk orienting students towards data privacy risks and necessities, February 2020.
- Computers with a Cause, Winning presentation at MyPCMyStory organized by Dell Inc., December 2019.

# LEADERSHIP & INVOLVEMENT

- Business development and strategy for LISUS, a green initiative startup focusing on sustainable lithium mining.
- Graduate Student Mentor and Orientation Leader, Viterbi School of Engineering, USC.
- Head of Research and Treasurer at Manipal Information Security Team (MIST), a student body aimed at cybersecurity and data privacy concepts. (July 2020 – August 2021)
- Certified Cadet holding rank of Corporal with the National Cadet Corps(NCC). (July 2018–February 2021)
- Campus Ambassador, Coursera. (May 2019–April 2021)
- Cisco **SecCon CTF 2020** team made it in the top 10.
- Volunteer at Yes We Can, a non-profit organization focusing on child health and education.
- Developed and maintain V4AChange: Citizen platform for issue feedback and media consideration.
- Organizer for Sponsorship for university cultural fest (Revels' 20).
- Android App Developer for university technical fest (TechTatva'19).
- Led high school team for the NASA Space Settlement Contest. (2016)
- Member, Student Council of Middle and High School, Johnson Grammar School. (2012–2014)

# ADVANCED COURSES AND CERTIFICATIONS

- |  |  |
|--|--|
| - Azure AZ-900 Certification: <b>Microsoft</b>   | - Project Management Certification: <b>Google</b>        |
| - Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans <b>TCPS 2: CORE.</b> | - Interaction Design Specialization, <b>UC San Diego</b> |
| - Specialization in Big Data, <b>UC San Diego</b>  | - Social Network Analysis (CSE4074)                      |
| - Open Source Tools for Data Science, <b>IBM.</b>  | - Human-Computer Interfaces (CSE4069)                    |
|  | - R Programming, Johns Hopkins University.               |