

Prachotan Reddy Bathi

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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). 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

Cloudflare/Heroku

SSL, DNS Records

Nginx/TomCat/LightSpeed

Network Simulation (GNS3)

Active Directory/ iAM

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

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| <ul style="list-style-type: none">- Azure AZ-900 Certification: Microsoft- Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans TCPS 2: CORE.- Specialization in Big Data, UC San Diego- Open Source Tools for Data Science, IBM. | <ul style="list-style-type: none">- Project Management Certification: Google- Interaction Design Specialization, UC San Diego- Social Network Analysis (CSE4074)- Human-Computer Interfaces (CSE4069)- R Programming, Johns Hopkins University. |
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