

# TIEN NGUYEN

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## RESEARCH INTERESTS

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Software Engineering, Testing, & Debugging

## EDUCATION

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**Virginia Tech**, Blacksburg, VA Aug 2023 – Present  
Ph.D. in *Computer Science and Applications* GPA: 4.0

**University of Saint Thomas**, Saint Paul, MN Aug 2020 – May 2022  
Bachelor of Science in *Computer Science* GPA: 3.99

**Century College**, White Bear Lake, MN Jan 2018 – May 2020  
Associate of Science in *Computer Science* GPA: 4.0

## RELATED EXPERIENCE

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**Research Assistant**, *Virginia Tech*, Blacksburg, VA Aug 2023 – Present

- Assistant to Dr. Muhammad Ali Gulzar
- Conducted a study investigating pathological executability issues in public computational notebooks under novel notions and degrees of executability and found that only 21.3% are truly pathologically non-executable. Developed LLM-based strategies to fully and partially restore 5.4% and 12.8% of previously non-executable notebooks, respectively. Source code and data are available on [GitHub](#) (MSR 2025).

**Information Security Student Coordinator**, *University of St. Thomas*, Saint Paul, MN Feb 2022 – May 2022

- Monitored and secured university systems and networks within the Security Operations Center (SOC)
- Conducted routine security audits to address about 20 system incidents per day
- Resolved about 5 IT service tickets per day using management tools for optimal efficiency
- Managed Azure Active Directory users, adhering to FERPA guidelines

**Software Engineering Intern**, *Target*, Minneapolis, MN Jun 2021 – Aug 2021

- Developed a full-stack web application enabling 100+ authorized users to search prepaid product masking codes
- Designed front-end user interface components using React, JavaScript, Material UI, and Axios HTTP requests
- Created REST API endpoints for the back end using Java, Spring Boot, and Oracle Database
- Practiced Agile methodologies and utilized Jira board for weekly sprint planning

## PUBLICATION

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- Are the Majority of Public Computational Notebooks Pathologically Non-Executable?  
**Tien Nguyen**, Waris Gill, and Muhammad Ali Gulzar. *2025 IEEE/ACM 22nd International Conference on Mining Software Repositories (MSR)*, Ottawa, ON, Canada, 2025, pp. 396-407, doi: 10.1109/MSR66628.2025.00070. *EMSE* Special Issue Invitee.

## TEACHING ACTIVITY

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**CS 1064 Introduction to Programming with Python**, TA, Virginia Tech Fall '24, Spring '25

**CS 1114 Introduction to Software Engineering with Java**, TA, Virginia Tech Fall '23

## HONORS & AWARDS

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<b>Nancy Jo Hendrickson Legacy Scholarship</b> , AAUW Northeast Metro Branch, MN	Oct 2020
<b>Mathematics Scholarship</b> , Century Foundation, MN	Jul 2020
<b>Academic Scholarship</b> , KOPP Foundation, MN	Oct 2019

## PROJECTS

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**Classy Schedule** – Senior Capstone, *University of Saint Thomas*, Saint Paul, MN

- Developed a web application allowing department chairs to schedule classes and teaching sections
- Designed front-end user interface components using React, Material UI, and JavaScript
- Cooperated with back-end and database teams to deploy and host the application on Azure

**AbroadstudiZ** – gAlpha, *University of Saint Thomas*, Saint Paul, MN

- Cooperated with 3 students to design an innovative start-up business model in the gAlpha program
- Constructed a web application using bubble.io that serves as a platform for international students to navigate their study abroad pathway and share their global experience
- Interviewed 23 current international students and 6 international officers to identify common problems
- Selected as one of the 6 finalists in the 2021 Fowler Global Social Innovation Challenge

## REFERENCE

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- **Dr. Muhammad Ali Gulzar** – *Assistant Professor, Virginia Tech*  
[gulzar@vt.edu](mailto:gulzar@vt.edu) | <https://people.cs.vt.edu/~gulzar>