MINJUN LONG
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EDUCATION

UNIVERSITY OF VIRGINIA   Charlottesville, VA

Bachelor of Arts   2018 – 2022

- Majors: Computer Science (GPA: 3.95/4.0), Psychology (GPA 3.82/4.0)
- Achievements: Rank 6th/2000 in 2021 Global Health & Innovation Conference Final Competition; Best Beginner Hack in 2019 HooHacks
- Relevant Coursework: Defense Against the Dark Arts, Cybersecurity, Computer Network, Operating System, Programming Languages, Databases, Machine Learning, Algorithms, Software Development

PhD in Computer Science   2022 – 2027

RESEARCH INTERESTS

My research interests involve security and privacy, including but not limited to application security, network security, and data privacy. I look forward to conducting more research to identify security issues and privacy concerns, and to design developer-friendly security tools and privacy-preserving systems. The end goal is to make software more secure and protect user privacy when facing emerging technologies. My past research includes analyzing code to find vulnerable patterns, examining online platforms to address privacy issues, and building privacy-preserving systems.

PUBLICATIONS

Is Your Policy Compliant? An Empirical Study of Privacy Policies' Compliance with GDPR, WPES 2022, Tamjid AI Rahat, **Minjun Long**, Yuan Tian

SenRev: Measurement of Personal Information Disclosure in Online Health Communities, under review at PoPETS 2023, Faysal Hossain Shezan, **Minjun Long**, David Hasani, Gang Wang, Yuan Tian

RESEARCH EXPERIENCES

UNIVERSITY OF VIRGINIA   Charlottesville, VA

Measurement of Personal Information Disclosure in Online Health Communities

Research Assistant, Supervised by Yuan Tian and Gang Wang   2020 – 2021

- Crawled a list of mobile apps and websites concerning health communities with API endpoints and Python
- Built a system to analyze over 1.8M posts from different online health communities and detect 70.6% sensitive data leakage in various forms
- Identified some patterns based on the measurement results, such as information leaked from healthcare professional is more sensitive than normal users
- Submitted the resulting paper as second author to USENIX Security 22 and got featured in the UVA website

Investigation on the Privacy-Preserving Image Processing

Research Assistant, Supervised by Yuan Tian   2019 – 2020

- Designed a video encryption system prototype that generates a random key for each face detected in the video, denatures these faces, and can decrypt each face if the key is provided
- Optimized the system by generating biometrical keys instead of random keys based on eigenface algorithm, decrypting the most similar face in the video if provided a target face image
- Achieved 95% accuracy on the test set containing 40 faces obtained from AT&T database

Program Analysis on OpenID Connect

Research Assistant, Supervised by Yuan Tian 2021 – Present
- Extracted requirements of ID Token signature verification flow from documentation and analyzed different open source implementations to identify vulnerable patterns

SELECTED PROJECTS
PREPARE ORGANIZATION (https://www.linkedin.com/company/project-prepare) Remote
Co-Founder and Director of Technology 2020 - 2021
- Building a non-profit startup to address post-COVID mental health crisis by building mental health workforce and disseminating primary care to hard-to-reach areas in resource-limited settings in digital platforms
- Developing mobile apps with React Native, Expo, and Amazon document DB in AWS
- Incubated in Harvard Innovation Lab and Lemann Program on Creativity and Entrepreneurship

UNIVERSITY OF VIRGINIA Charlottesville, VA
Plannable Organization (https://plannable.org)
Co-Founder and UI Developer 2019 Fall
- Initiated project idea of auto-generate different schedules based on course selection and won Best Beginner Prize in 2019 UVA Hackathon with the prototype
- Designed and revised user interface based on market research, implementing with Vue template and Bootstrap
- Promoted in UVA and gain over one thousand users within half a year

Design and Implementation of Web App JoinYourGroup (http://54.241.134.150)
Course Project Leader, Supervised by Nada Basit 2021 Spring
- Developed a secure and effective website to let users meet with like-minded people and create local events
- Applied Role-Based Access Control (RBAC) and prepared statements based on PHP to ensure data security on database level and guard the system against SQL injection attacks

Predict Flight Delay with Machine Learning (https://github.com/Elena6918/Machine-Learning)
Course Project Leader, Supervised by N.Rich Nguyen 2020 Spring
- Explored various Regressors and Classifiers and selected the best performed model to predict flight delay in Charlottesville Albemarle Airport effectively

INDUSTRY EXPERIENCE
ANHUI WANTONG TECHNOLOGY Hunan, China
Software Engineer Intern 2019 Summer
- Designed database structure based on collected data and implemented using MySQL
- Developed websites for Hunan Public Security Department with Spring MVC (front-end programming) and coded integrated monitoring module in team (back-end programming)

ORGANIZATIONS
CSSS (Chinese Student and Scholar Society), UVA Charlottesville, VA
Chair of Tech Dept. 2019 - 2020
- Developed main websites of the organization using React.js and Django.

Cavalier Daily, UVA Charlottesville, VA
Senior Translator of Translation Dept. 2018 - 2019
- Translated articles from Cavalier Daily into Chinese and helped deliver campus news at UVA in China.

SKILLS AND INTERESTS

· Programming: Proficient in Python, JAVA, C/C++, HTML/CSS, MySQL, JavaScript, OCaml, Git, Latex
· Language: Chinese (Fluent), French (Beginner)
· Interests: Piano (level 10), Fencing