

EDUCATION

Madison, WI	University of Wisconsin – Madison	Fall 2017 – Winter 2020
<ul style="list-style-type: none">• B.S. in Computer Science• Scholarships: CVS Health Foundation Program• CS Coursework: Information security, Operating systems, Machine learning, Data structures, Algorithms, Discrete math, Artificial intelligence, Cryptography, Linear algebra, Calculus, Applied statistics, DBMS, Statistical learning theory, Security&Privacy topics, Computer vision, Virtual reality		

PUBLICATIONS AND PREPRINTS

- [Face-Off: Adversarial Face Obfuscation](#) | V. Chandrasekar, C. Gao, **B. Tang**, K. Fawaz, S. Jha, S. Banerjee | PETS, July 2021
- [Rearchitecting Classification Frameworks for Increased Robustness](#) | V. Chandrasekar, **B. Tang**, N. Papernot, K. Fawaz, S. Jha, X. Wu

EXPERIENCE

Software Engineering Intern	Roblox	Summer 2019
<ul style="list-style-type: none">• Create core features for Roblox Studio's script editor in a test-driven development setting• Develop integrated JavaScript Squish tests for evaluating expected behavior of features• Evaluate regression models for vulgarity detection		

Research Assistant	UW Security & Privacy Group	Fall 2018 – Present
<ul style="list-style-type: none">• Create personalized privacy controller and robot privacy literature survey• Create black-box evaluation for transferability of adversarial attacks with custom loss functions• Develop web app for users to upload and obfuscate faces, allowing users to preserve privacy on social media platforms• Design experiments and write paper for machine learning robustness project• Create hierarchical robust classification system using LiDAR, certified (smooth) DNNs, and adversarially trained DNNs		

Software Engineering Intern	Optum – UnitedHealth Group	Summer 2018
<ul style="list-style-type: none">• Develop data visualization web app that aggregates over 50 million records from various security databases and scans• Present project to audience of Optum's executives, directors, security analysts, and interns		

Website Lead, Executive Team	Transcend UW	Fall 2017 – Spring 2020
<ul style="list-style-type: none">• Design, create, update Transcend UW website using Wix (https://www.transcenduw.com)• Manage Transcend Madison annual competition, with more than \$60,000 in prizes• Create randomized greedy algorithm to match mentors with students based on schedules and areas of interest		

LARGE PROJECTS

Backend Developer	Algorithmic Trading Framework	Summer 2018 – Summer 2020
<ul style="list-style-type: none">• Develop Python framework for simulating algorithms on the stock market using API data• Implement model to predict large price movements and regression to find an optimal sell period		

LANGUAGES, TECHNOLOGIES, AND SKILLS (PROFICIENT)

- **Programming:** Python, C++, JavaScript, SQL, HTML, TensorFlow, PyTorch, Pandas, NumPy, D3.js, Qt, NginX, Flask, Squish
- **APIs & Software:** GitHub, Perforce(p4v), Overleaf, TD Ameritrade, Azure, AWS
- **Languages:** English – *Native* | Mandarin Chinese – *Intermediate* | French – *Elementary* | Japanese – *Elementary*
- **Hobbies & Interests:** Reading, Investing, Livestreaming, Anime, Tabletop/Video Games, Meditation, Chocolate

OBJECTIVES AND GOALS

- Learn more about creating more intuitive and usable software from software engineering and research
- Work on challenging projects to improve coding and problem-solving skills
- Meet a diverse set of people from a variety of backgrounds and perspectives