Brandon Wang

Personal Information

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coconut750750

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Programming Languages

Python
Java
C++ / C / C#
JavaScript | HTML | CSS
Go
SQL
Swift

Technologies

Git
AWS
Docker
Bamboo | Travis
Flask
ReactJS
React Native
Android | Unity
MongoDB

Education

University of Illinois at Urbana-Champaign   08/2017 - 05/2021

B.S., Major: Computer Science, Minor: Electrical Engineering   GPA: 4.0 / 4.0

- Dean's List | James Scholar | Campus Honors
- Relevant Coursework: Data Structures, Computer Architecture, System Programming, Artificial Intelligence, Computer Security, Communication Networks, Distributed Systems, Applied Cryptography
- Recipient of the Illinois Engineering Achievement Scholarship and the FMC Award of Excellence

Experience

Stripe | *Software Engineer Intern*   05/2019 - 08/2019

- Implemented an extendable audit logging protocol for the internal LDAP permissions management system to increase security observability
- Exposed the LDAP audit logs by designing an intuitive, least-privilege API, which is used to build sophisticated alerting and metrics tools
- Led the life cycle of a high security impact project, from drafting design documents and soliciting input from security teams to synthesizing significance and achievements in a company-wide report

Chicago Mercantile Exchange Group | *Software Engineer Intern*   03/2018 - 08/2018

- Modeled crop yield data with linear regression and neural network models to give insight about the structure of commodities market
- Engineered a versatile and modular metric analytics reporting application
- Programmatically examined financial exchange data to pinpoint inaccuracies

Research

Internet Toplists   10/2019 - now

- Investigating the correctness of popular Internet Toplists, which form the basis of much security research
- Performing correctness measurements with data obtained from our partners at Cloudflare

Visa IoT Software Defined Networks   12/2018 - now

Advisor: Professor Sibin Mohan   *University of Illinois Urbana Champaign*

- Designing a distributed SDN framework to measure packet latency and available bandwidth in subnets
- Collaborating with Visa to implement the framework in IoT-enabled financial networks

Detection and Measurement of Insecure IoT Devices   06/2016 - 06/2017

Advisor: Professor Zubair Shafiq   *University of Iowa*

- Analyzed three-years of data on over 100,000 IoT devices to characterize trends in patching behavior
- Correlated data with known patch releases and constructed models to predict future behaviors

Publications

Measurement and Analysis of Patching Practices for Industrial Control Systems   06/2017

Brandon Wang, Xiaoye Li, Leandro P. de Aguiar, Daniel S. Menasche, Zubair Shafiq

ACM International Conference on Measurement and Modeling of Computer Systems

Leadership

Engineering Open House Senior Corporate Director   08/2018 - 04/2020

- Reach out to potential corporate partners to get them involved with Engineering at Illinois
- Oversee the design and development of the EOH 100 Digital Experience

CS 461 Computer Security Course Assistant   08/2019 - now

- Host office hours specifically to help students with web and network security assignments
- Write new exam questions and proctor exams

Projects

Forty   08/2019 - 09/2019

- A multiplayer card game that uses socket.io for realtime communication between players and the game engine

imusi   11/2018

- A full stack application that recommends music based on features of a selected image
- Won the Best Musical Hack at VandyHacks V