Jeff Chen

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jeff.yt **△**

EDUCATION

Carnegie Mellon Class of 2016 – B.S. Computer Science – 3.4/4.0

- Minor in Human-Computer Interaction
- Relevant coursework: Algorithm Design and Analysis, Cloud Computing, Cognitive Robotics, Complexity Theory, Human-Robot Interaction, Interaction Design Overview, Science of the Web
- · Track and field school record holder

- 🖴 EXPERIENCE -

National Security Agency – Stokes Scholar

Holder of TS//SCI clearance with special background investigation and polygraph

Summer 2015 – Trusted Systems

- Designed and implemented a software keyboard for Android devices that operates in the TrustZone secure environment
- Ported IMA (Integrity Measurement Architecture) to Android
 - Partially implemented the Trusted Platform Module (TPM) standard in the TrustZone secure environment
 - Developed a kernel driver to interface with the software TPM
 - Wrote a secure application to cryptographically sign the IMA measurement list
 - Created a system service enabling Android remote attestation

Summer 2014 – Data Network Technologies

- Designed and developed CNE operations tool for collection of computer-to-computer communications
- · Designed and implemented secure communications protocol

Summer 2013 – Remote & Deployed Operations

- · Developed Windows anti-malware software
 - Used infection markers to enable lightweight, fast, and accurate detection and neutralization of known malware
 - Heuristically analyzed and tagged potential infection markers
- Created an intuitive network traffic visualizer, allowing analysts to more easily notice anomalous behavior

— </> SELECTED PROJECTS

April 2015	Created espresso , a deep learning framework designed to produce maintainable yet highly performant code compatible with Caffe.
Feb 2014	Created MiniPlay , a Chrome extension adding functionality to web music players with over 1000 daily users.
Aug 2013	Built a dynamic threadpool in modern C++11 to fill the gap in the C++ STL between std::async and std::thread.
2010-2012	Led development of eva , software for an autonomous submarine, incorporating computer vision, state machines, and control systems.

₽ SKILLS

Internet

Languages	C++14 • C • Java • Javascript • Python • x86 • Rust
Technologies	Cryptosystem design • *nix kernel development • OpenMP/Open MPI • SIMD • CUDA/OpenCL • OpenCV • Embedded systems

HTML • SASS/CSS • Angular.js • Node.js • Socket.IO • jQuery • MongoDB