JEFF CHEN

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💼 EXPERIENCE

Blend Labs — *Software Engineer*   *Feb 2016 - present*

- Enabled third-party "App Store" by supporting external data stores in the data model
- Directly impacted a top customer signing by improving platform performance by over 50%
- Developed several API endpoints critical to onboarding new customers
- Dramatically increased release and developer velocity by automating regression tests
- Implemented consumer-driven contract testing across microservices
- Mentored and onboarded new hires and interns

National Security Agency — *Stokes Scholar*   *June 2012 - April 2016*

- Designed and implemented a software keyboard for Android devices that operates in the embedded <u>TrustZone secure environment</u>
- Implemented <u>Linux IMA (Integrity Measurement Architecture)</u> in Android devices
- Developed CNE operations tool for collection of computer-to-computer communications
- Wrote lightweight heuristic-based Windows anti-malware software
- Created network traffic visualizations, enabling analysts to easily spot anomalies

</> SELECTED PROJECTS

Jan 2017	Built **chorebot**, a Slack bot to track roommate chore rotation.
Jun 2016	Designed and developed **μCal**, a tiny macOS menubar clock replacement.
Dec 2015	Wrote a **night vision library** for iOS suitable for real-time vision pipelines.
Apr 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.

🎓 EDUCATION

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

- Minor in Human-Computer Interaction
- Varsity track and field captain and school record holder

⚑ SKILLS

Languages	Javascript/Typescript • Python • C++14 • C • Swift • Java • x86 • Rust
Technologies	Cryptosystem design • *nix kernel development • OpenMP/Open MPI • SIMD • CUDA/OpenCL • OpenCV • Embedded systems
Web	MEAN stack • LESS/SASS/CSS • Selenium • Socket.IO • jQuery