

JEFF CHEN

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📁 EXPERIENCE

Blend Labs — Software Engineer

Feb 2016 - present

- Improved platform performance by over 50% by redesigning database interactions
- Developed several API endpoints critical to customer adoption
- Set up automated happy path testing, dramatically increasing release velocity
- Implemented consumer-driven contract testing across the external API
- Mentored 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 TrustZone secure environment
- Implemented Linux IMA (Integrity Measurement Architecture) in Android devices
- Designed and developed CNE operations tool for collection of computer-to-computer communications
- Developed lightweight Windows anti-malware software
- Created network traffic visualizations, enabling analysts to easily spot anomalies

</> SELECTED PROJECTS

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| Jan 2017 | Built chorebot , a Slack bot to track roommate chore rotation. |
| Jun 2016 | Designed and developed μCal , a tiny macOS menubar clock replacement. |
| 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 <code>std::async</code> and <code>std::thread</code> . |
| 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

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| 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 |