

# 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

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## </> SELECTED PROJECTS

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|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Jan 2017  | Built <b>chorebot</b> , a Slack bot to track roommate chore rotation.                                                                           |
| Jun 2016  | Designed and developed <b>μCal</b> , a tiny macOS menubar clock replacement.                                                                    |
| Apr 2015  | Created <b>espresso</b> , a deep learning framework designed to produce maintainable yet highly performant code compatible with Caffe.          |
| Feb 2014  | Created <b>MiniPlay</b> , a Chrome extension adding functionality to web music players with over 1000 daily users.                              |
| Aug 2013  | Built a <b>dynamic threadpool</b> 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 <b>eva</b> , software for an autonomous submarine, incorporating computer vision, state machines, and control systems.       |

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## 🎓 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

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## 🔧 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                                                       |