

## Brian C. Tracy

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- Education**      *B.S. Computer Science:* Brown University      September 2017 - December 2021  
*Key Courses:* Operating Systems, Systems Programming, Databases, Software Exploitation, Programming Languages
- Technical Skills**      *Programming Languages:* C++, C, x86 assembly, Python, Java, TypeScript, OCaml  
*Technologies:* Linux, Git, CMake, gdb, L<sup>A</sup>T<sub>E</sub>X
- Work Experience**      *Software Engineer*      June 2021 - Present  
Onshape/PTC, Boston MA
- Designed and implemented a backwards compatible serialization framework for our C++ application's 3D model data.
  - Assumed ownership of and improved source code generation system.
  - Championed the modernization of our C++ code and toolchains.
  - Zealous code reviewer, built team awareness of modern C++ best practices.
- System Administrator / Head Teaching Assistant*      September 2019 - December 2021  
Brown Computer Science Department, Providence RI
- Head SunLab Consultant, responsible for leading a team of 15 student sysadmins.
  - Head TA for "Software Exploitation" (ELF, x86, linkers, binary hardening).
- Software Engineer Intern*      Summer 2020  
Verizon, San Jose CA
- Used TypeScript, AWS Lambda, and DynamoDB to create an integration between the company's video conferencing product and external medical providers.
  - Introduced extensive automated testing to ensure the reliability and scalability of the system.
- Software Engineer Intern*      Summers 2018 & 2019  
Blue Jeans Network, San Jose CA
- Worked in Swift to add features and fix bugs in the company's macOS application. My contributions were broad in scope: UI, business logic, interactions with backend APIs.
  - Gained fluency with version control systems, issue trackers, and code review process.
- Software Engineer High School Intern*      Summers 2015 & 2016  
Blue Jeans Network, Mountain View CA
- Designed and implemented a collaborative note taking application using JavaScript and WebSockets.
  - Lead an initiative to bring the accessibility of the company's web app into compliance.
- Misc**
- Top 6% by reputation of users on Stack Overflow.
  - Contributed to pip (Python package manager) and a minor contribution to LLVM.
  - I write technical blogposts where I re-implement bare-bones versions of classic Linux software (pthreads, tar, gprof) from scratch.