

SIDDHARTHA PRASAD

SOFTWARE ENGINEER | SEATTLE, WA



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EDUCATION

**Bachelor of Science
Computer Science & Mathematics**
May 2016

Summa Cum Laude
High Thesis Honors
GPA : 3.90

Tufts University, Medford MA

SKILLS

Operating Systems, Language
Design, Compilers, Networking.
Git, WinDBG, Windows, UI / UX.
C, C++, C#, Haskell, SML, XAML.

ORGANISATIONS

Tau Beta Pi

Tufts University Engineering
Mentors

EXPERIENCE

Software Engineer • Microsoft • Aug 2016 – Present

- I develop APIs and features for XAML, a powerful UI framework used by thousands of developers to build Universal Windows apps.
- Emphasis on XAML input APIs, including keyboard events, Embedded Ink, Focus, and Access Keys.
- Work on Hosting, including embedding HTML content within a XAML applications.

Software Engineering Intern • Microsoft • May – Aug 2015

- Worked on APIs for the XAML framework for Windows 10, Xbox, and Windows Phone.
- Emphasis on focus behavior, with respect to Keyboard and GamePad.

Teaching Assistant • Tufts University • Jan 2014 – May 2016

- Assisted Programming Languages, Algorithms and Data Structures courses.
- Taught weekly recitations and wrote automated grading scripts. Graded assignments for over 130 students.

Intern • INRIA Saclay • Jun – July 2014

- Designed and implemented the first type-generic verification system for first order equational logic under INRIA's Proofcert grant.
- This system produces certificates that can verify the correctness of term re-writing and theorem proving systems.

RESEARCH

Domain Specific Languages & Parser Debuggers

Thesis on a *Stepwise Debugger for Bison*-generated parsers under Prof. Kathleen Fisher at Tufts University. Developed *PBug*, a parser-generator domain specific language under the guidance of Prof. Fisher.

Cloud Caching Mechanisms for Proxies

Designed a distributed cloud-based cache, localized at the edge of the network. The cache uses fingerprinting to provide faster data delivery than content providers alone. Project sponsored by Prof. Fahad Dogar at Tufts University.