SIDDHARTHA PRASAD

DEVELOPER | SEATTLE, WA

I LOVE WORKING IN THE INTERACTION OF RESEARCH AND INDUSTRY.
I WANT TO TACKLE TOUGH, OPEN-ENDED PROBLEMS AND FIND REAL WORLD APPLICATIONS FOR THEIR SOLUTIONS.

EDUCATION

Bachelor of Science
Computer Science and
Mathematics
Summa Cum Laude
High Thesis Honors
GPA : 3.90
Tufts University, Medford MA
May 2016

SKILLS

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

PROFESSIONAL ACTIVITIES

Tau Beta Pi

Tufts University Engineering Mentors

EXPERIENCE

SOFTWARE ENGINEER • MICROSOFT • AUGUST 2016 - PRESENT
· I work on features and APIs for Microsoft's XAML UI Framework.
· Develop algorithms dealing with XAML text, keyboard, and pen input.
· Work on XAML Hosting features.

TEACHING ASSISTANT • TUFTS UNIVERSITY • JAN 2014 – MAY 2016
· Teaching Assistant for Programming Languages, Algorithms and Data Structures courses.
· Taught weekly recitations and wrote automated grading scripts.
· Graded assignments for over 130 students.

SOFTWARE ENGINEERING INTERN • MICROSOFT • MAY – AUGUST 2015
· Added a cohesive API set to the XAML language.
· Worked on platforms including Windows 10, XBox and Windows Phone.

RESEARCH EXPERIENCE

DOMAIN SPECIFIC LANGUAGES AND PARSER DEBUGGERS • TUFTS UNIVERSITY
Thesis on a *Stepwise Debugger for Bison*-generated parsers under Prof. Kathleen Fisher. Developed *PBug*, a parser-generator domain specific language under the guidance of Prof. Fisher.

CLOUD CACHING MECHANISMS FOR PROXIES • TUFTS UNIVERSITY
Explored and implemented cloud and value-based parsing mechanisms for proxies as part of a Capstone Project sponsored by Prof. Fahad Dogar.

CORRECTNESS CERTIFICATES FOR TERM REWRITING • INRIA SACLAY
Designed and implemented the first type-generic verification system for first order equational logic. Researched rewrite certificates and verification of term re-writing and theorem proving systems under the Proofcert grant. Gave a talk at INRIA on type-generic verification.

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