

Siddhartha Prasad

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Education

BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND MATHEMATICS | 22ND MAY 2016 | TUFTS UNIVERSITY

- Summa cum Laude with High Thesis Honors
- Dean's List | GPA: 3.90

Experience

SOFTWARE ENGINEER | MICROSOFT CORPORATION | REDMOND, WA | AUGUST 2016 - PRESENT

SOFTWARE ENGINEERING INTERN | MICROSOFT CORPORATION | REDMOND, WA | MAY – AUGUST 2015

- Added a cohesive API set to the XAML language.
- Worked on platforms including Windows 10, Xbox and Windows phone.

TEACHING ASSISTANT | TUFTS UNIVERSITY | MEDFORD, MA | 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.

Research Experience

DOMAIN SPECIFIC LANGUAGES AND PARSER-DEBUGGERS | TUFTS UNIVERSITY | MEDFORD, MA | JANUARY 2015 – MAY 2016

- Senior 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. Kathleen Fisher.

CACHING MECHANISMS FOR PROXIES | TUFTS UNIVERSITY | MEDFORD, MA | SEPTEMBER 2015 – MAY 2016

- Explored and implemented cloud and value-based parsing mechanisms for proxies as part of a Capstone Project sponsored by Prof. Fahd Dogar.

INTERN | INRIA SACLAY | PALAISEAU, FRANCE | JUNE – JULY 2014

- 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.

INTERN | GRAPHICS AND VISION LAB, I.I.T. DELHI | NEW DELHI, INDIA | JUNE – AUGUST 2013

- Implemented an in-painting system for greyscale images that carries out predictive image restoration under the grant Acquisition, Representation, Processing and Display of Heritage Sites.
- Created a modified version of standard in-painting algorithms, using partial differential equations.

Honors and Activities

- Corresponding Secretary, Tau Beta Pi Honors Society
- Mentor, Tufts University Engineering Mentors
- Member, Inspire Program, Govt. of India (for the top 1% of science students in India)
- Guitarist, Tufts University Jazz Band.