Siddhartha Arjun Prasad

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Education

Bachelor of Science in Computer Science | May 2016 | Tufts University, Medford MA

GPA: 3.90   Summa Cum Laude with High Thesis Honors   Deans List
Majors: Computer Science and Mathematics

Employment

Software Engineer • Microsoft Corporation

Applied AI Team • April 2018 — Present
· Developer on Cognitive Services that allow for AI to easily be injected into apps, bots, and websites.

· Involved in containerizing cognitive services, allowing AI models to be run portably across a variety of operating systems and architectures.

Developer Ecosystem Framework • Aug 2016 — March 2018
· Developed APIs and features for XAML, a powerful UI framework used by thousands of developers to build Universal Windows apps.

· Designed XAML input APIs, including keyboard events, Embedded Ink, Focus, and Access Keys. Worked on cross-platform hosting, including embedding HTML content within a XAML applications, and XAML islands.

Intern • Developer Ecosystem Framework • May — Aug 2015
· Worked on APIs for the XAML framework for Windows 10, XBox, and Windows Phone with a special emphasis on Xbox gamepad interactions.

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.

Research Experience

Domain Specific Languages & Parser Debuggers | Tufts University | Jan 2015 – May 2016
- Research on developing domain-specific debugging infrastructure for parsers under the guidance of Prof. Kathleen Fisher.
- Senior thesis on a *Stepwise Debugger for Bison*-generated parsers.

Cloud Caching Mechanisms for Proxies | Tufts University | Sept 2015 – May 2016
- Research on caching mechanisms for HTTP Proxies under the guidance of Prof. Fahad Dogar.

- 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.

Correctness Certificates for Term Rewriting | INRIA Saclay | Jun — July 2014
- Research on certificates on correctness for first order term-rewriting under the guidance of Prof. Dale Miller.
- Designed and implemented independently verifiable certificates of correctness for first-order term rewriting proofs under INRIA's *Proofcert* grant.
- Gave a talk on independent verification of first order equational logic at INRIA.

Image In-painting | IIT Delhi | Jun 2013 – Aug 2013
- Internship on graphics and vision under the guidance of Prof Prem Kalra.
- Implemented and tested image in-painting algorithms designed for the restoration of old images.

Organizations

Tau Beta Pi

Tufts University Engineering Mentors