

Keshav Anand — Brag Sheet

Program Information

Application for Research and Science Institute (RSI), and ultra-selective (3%) program at MIT for science research

Admission into this program results in auto-admission into **practically any US College** (due to selectivity)

I am applying for RSI so I can promote my computer science and engineering research that I have done

- [RSI Program Page](#) — top program in the US for high school research
- I am applying in computer science and robotics as research disciplines
- My acceptance is dependent on my prior research, accolades, and the strength of my recommendations

Character Traits and Personality

- **Honest** and high **integrity**: helped catch cheaters in school multiple times.
- **Inquisitive and Curious**: always asking questions and trying to learn more
- **Hardworking and Determined**: Pushing myself to perfection in everything I do
- **Creative Problem Solver**: Able to think outside the box and come up with innovative solutions
- **Character Weaknesses**:
 - Can tend to overthink problems and overcomplicated solutions
 - Sometimes take on too much at once and struggle to prioritize tasks
 - Sometimes struggle with delegation and asking for help when needed
 - Can be overly critical of myself and others at times

Education

University of Pennsylvania

Sept 2000 – May 2005

BS in Computer Science

- GPA: 3.9/4.0 ([a link to somewhere](#))
- **Coursework**: Computer Architecture, Comparison of Learning Algorithms, Computational Theory

Experience

Software Engineer

Cupertino, CA

Apple

June 2005 – Aug 2007

- Reduced time to render user buddy lists by 75% by implementing a prediction algorithm
- Integrated iChat with Spotlight Search by creating a tool to extract metadata from saved chat transcripts and provide metadata to a system-wide search database
- Redesigned chat file format and implemented backward compatibility for search

Software Engineer Intern

Redmond, WA

Microsoft

June 2003 – Aug 2003

- Designed a UI for the VS open file switcher (Ctrl-Tab) and extended it to tool windows
- Created a service to provide gradient across VS and VS add-ins, optimizing its performance via caching
- Built an app to compute the similarity of all methods in a codebase, reducing the time from $\mathcal{O}(n^2)$ to $\mathcal{O}(n \log n)$
- Created a test case generation tool that creates random XML docs from XML Schema
- Automated the extraction and processing of large datasets from legacy systems using SQL and Perl scripts

Publications

3D Finite Element Analysis of No-Insulation Coils

Jan 2004

Frodo Baggins, **John Doe**, Samwise Gamgee

[10.1109/TASC.2023.3340648](#)

Projects

Multi-User Drawing Tool

github.com/name/repo 

- Developed an electronic classroom where multiple users can simultaneously view and draw on a "chalkboard" with each person's edits synchronized
- Tools Used: C++, MFC

Synchronized Desktop Calendar

github.com/name/repo 

- Developed a desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users
- Tools Used: C#, .NET, SQL, XML

Custom Operating System

2002

- Built a UNIX-style OS with a scheduler, file system, text editor, and calculator
- Tools Used: C

Technologies

Languages: C++, C, Java, Objective-C, C#, SQL, JavaScript

Technologies: .NET, Microsoft SQL Server, XCode, Interface Builder