Rahul Surti

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Education

University of Illinois at Urbana-Champaign

B.S. Computer Engineering, Class of 2019
James Scholar
Dean's List
GPA – 3.74/4.0

Skills

Core Programming

- Python
- Java
- C, C++

Relevant Coursework

- CS 525: Advanced Distributed Systems
- ECE 428: Distributed Systems
- ECE 391: Computer Systems Engineering
- CS 398: Applied Cloud Computing

Follow Me

Read my white paper
rahulsurti97.github.io/littlelog.pdf

See my projects on my
github.com/rahulsurti97

Check my career profile on
linkedin.com/rahulsurti97

See my hackathon projects at
devpost.com/rahulsurti97

Software Engineering Intern Experience

Microsoft — *May 2018 – Present*

Enabled voice capabilities for virtual assistant for **Microsoft Ready 2018**
Conference for Microsoft technical sales and services delivery

GSI Group — *Aug 2017 – May 2018*

Developed augmented reality experience using Microsoft Hololens for a **global tradeshow**

Oath — *May 2017 – Aug 2017*

Built data caching and messaging framework on top of Watch Connectivity
Boosted performance of Yahoo Mail Apple Watch app by **60%**
Created augmented reality Yahoo Mail with ARKit for corporate hackathon
*Project has currently developed into a **full-fledged team** at Oath*

Capital One — *Aug 2016 – May 2017*

Team was heavily bottlenecked by long code reviews
Developed GitHub plugin to automate code reviews
Reduced code review process by **70%**

Allstate — *May 2016 – Aug 2016*

Learned Agile development process while integrating Touch ID login on iOS

Research & Related Projects

CS 525: Advanced Distributed Systems Research — *Spring 2018*

Built system for efficient logfile compression and query
Able to **search** files directly **without decompression**
Query latency up to **97% faster** than UNIX grep with **50% compression** ratio
Read my white paper for more information

Distributed Graph Processing Engine — *Fall 2017*

Built completely from scratch in Java using network of 10 machines
Able to process graphs with **2 million** nodes, **3 million** edges in seconds
Beats Apache Spark GraphX libary in some instances

Fault Tolerant Distributed File System — *Fall 2017*

Store and modify files permanently in cloud even with machine failure
Able to detect machine failures in **under 1 second**

Unix-based Operating System — *Spring 2017*

Built OS from scratch in C

Involvement

Engineering Council Tech Overhaul Project — *May 2017 - Present*

Managing revamp of Engineering Council main site and committee sites
Building new sites on AWS using React with Flask backend

Engineering Open House - Director of Tech — *Aug 2017 - Present*

On committee that organized event with over 30,000 visitors
Leading development team to build EOH website

Engineering EXPO - Director Of Tech — *Aug 2018 - Present*

Leading development team to build EXPO website