

Suraj Harjani

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EDUCATION

University of Michigan, Ann Arbor

B.S.E. Computer Science Engineering (Dean's List)

Sep 2018 – May 2021

GPA: 3.5

SKILLS

Relevant Courses

- Data Structures & Algorithms I and II • Computer Science Pragmatics • Computer Organization • Linear Algebra
- Computer Security

Programming Languages

- Experienced: C++, C, ARM, Python, JavaScript • Intermediate: C# • Learning: MySQL, MATLAB, PHP

Known Tools

- Experienced: Git, Unity, bash, UNIX based Systems, Vim • Intermediate: Virtual Machine • Learning: JSON

PROJECTS

Client and Server-side LAN messenger system (Python)

- Utilized socket API to create a server/client information exchange protocol that utilizes IPV4 format to transfer strings of messages between clients through a server protocol script running on any one of connected machines.
- Utilized as a tool to communicate running information between parent and forked processes.

Head Soccer (Unity using C#)

- Utilized physics engine built into Unity and complex algorithms to build a timed, multiplayer, platform soccer game with score-tracking capabilities
- Plans are in place to continue on the initial project to provide a smoother interface with bot, arcade and other modes

LC-2K Computer Architecture assembler and simulator (C)

- Understood and mirrored working of single-cycle and pipeline data path versions of the LC-2K microarchitectures in C to further understanding of the how the data and control paths function
- Implemented with varying versions and microarchitectures to study the CPI and latency of varying microarchitecture components.

PROFESSIONAL EXPERIENCES

Management Consultant (BOND Consulting Group)

January 2019 - Present

- Analyzed Barber Shop Data in order to optimize and implement new staffing model to increase revenue to \$600,000 a month while keeping the 40 hours per week per stylist and the operating costs consistent
- Examined appointments and demographics to strategize promotion and organization of underperforming store to improve customer retention and spread reach within target market and improve overall utilization
- Liaised with past clients to receive detailed reports in order to track driven impact and improve existing processes

President (Multi-cultural Council of Bursley Hall – UM)

September 2018 – May 2019

- Run open meetings where residents can share concerns, give feedback which are ultimately addressed by council
- Promote environment that is open and welcoming to people of different backgrounds by running events – such as a walkover to a Diwali celebration and an educative game night -that promoted diversity, equity and inclusion

Computer Consultant (CAEN Computer Network)

March 2019 – May 2019

- Ensured quick resolution of client concerns by providing troubleshooting of CAEN software and services, hence promoting an environment conducive to engineering research and learning and ease-of-use for all users.
- Served as the forefront face of CAEN, having significant technical understanding of the hundreds of CAEN services and software as well as the access and skills needed to troubleshoot or solve previously unknown issues.

Resident Advisor (University of Michigan Housing)

September 2019 – March 2020

- Facilitated inclusive environment for 50 residents, being a mentor for concerns and support.