

Parul Sohal

Resume

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Education

2017–Present **Boston University, Boston, MA**, *PhD in Computer Science*, Advisor: Prof. Orran Krieger.
2013–2017 **Lewis & Clark College, Portland, OR**, *Bachelors of Arts*, GPA:3.705.

Skills & Abilities

Languages C, JAVA, PYTHON, x86

Experience LINUX KERNEL PROGRAMMING, ANDROID PROGRAMMING

Research Interests

Real-Time Systems.

Partially Programmable Hardware.

Unikernels.

Projects

Current **Memory Bandwidth Allocation.**

Creating a theoretical model that will determine a policy for allocating memory bandwidth to different cores. Then implement this policy on Intel hardware.

Current **Unikernel based on Linux.**

This project aims to create a unikernel out of Linux and glibc with minimal code changes for a greater chance of being accepted upstream, while over time providing the benefits of research unikernels.

2018 **Video-to-Video Translation**, *Class Project.*

A frequency splitting technique using 3DRecycleGan to perform unsupervised video-to-video translation to preserve spatio-temporal consistency and motion continuity.

2017-2018 **Mix&Match Federation**, *Massachusetts Open Cloud.*

Integrating multiple instances of OpenStack to enable a multi-landlord cloud model, where multiple service providers can cooperate (and compete) to stand up services in a single cloud, and users can federate resources between various services in various ways.

2016 **SignPost Android Application**, *Class Project.*

A social media android application that allowed a user to leave comments at their current location via adding a signpost to Google Maps.

Relevant Coursework

- Advanced Operating Systems

- Computer Networks

- Computer Architecture

- Programming Languages