

# Sana Nazir

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## EDUCATION

### **PURDUE UNIVERSITY**

**MS COMPUTER SCIENCE**  
West Lafayette, IN

### **LAHORE UNIVERSITY OF MANAGEMENT SCIENCES**

**BS COMPUTER SCIENCE**  
Lahore, PAKISTAN  
Minors: Mathematics, Psychology

## TECHNOLOGY

## SHOWCASE

### **MOHAWK RIVER**

Intel Demo Day 2020

Intel DTTC 2019

COMPUTEX 2019

Intel SWPC 2019

### **INTEL REALSENSE**

Intel Demo Day 2016

## ACADEMIC

## PROJECTS

2018 | Map Reduce Word Count  
(C++, OpenMP, MPI)

2018 | Report: Utilization of Deep  
Learning Algorithms in  
Aerodynamics

2017 | GCC Compiler support for  
analyzing uninitialized local/global  
variables (C)

2016 | XINU OS Components  
including Scheduler & Virtual Mem  
Support (C)

2016 | UDP based talk(chat) App  
UDP based audio streaming App (C)

## EXPERIENCE

### **INTEL | ENGINEER**

- Aug 2019 - Present | Software Engineer IOTG - Compiler Architecture
- Oct 2018 - Aug 2019 | Software Engineer IAGS - Systems Software
- May 2017 - Aug 2017 | Graduate Software Engineering Intern
- May 2016 - Aug 2016 | Graduate Software Engineering Intern

### **PURDUE UNIVERSITY | GRADUATE STAFF**

2015 - 2018 | 20 Hr Graduate Staff positions

- Aug 2017 - May 2018 | Teaching Assistant Computer Architecture
- Aug 2016 - May 2017 | Graduate Research Assistant Purdue Libraries
- Aug 2015 - May 2016 | Graduate Research Assistant Purdue Libraries

### **CONTRACTUAL EMPLOYMENT**

2010 - 2014 | Teaching & Software Consultation

- QC Technologies | Technology Consultant
- 4MWireless (acquired by Ublox) | Lead Architect for Multi UE LTE Toolset
- Lahore University of Management Science (LUMS) | Teaching Assistant Network Security, Electricity & Magnetism

### **MENTOR GRAPHICS | ESD NETWORKING TEAM**

2007 - 2009 | Embedded Software Development Engineer

### **XAVOR | BROADCOM CLIENT SERVICES & BUSINESS DEVELOPMENT**

2006 - 2007 | Software Development Engineer

## SELECT PROJECTS

### **INTEL**

#### **2019 | PLAIDML EXECUTION PROVIDER FOR ONNX RUNTIME**

Created the interface to enable ONNX Runtime to run using PlaidML as the execution provider, by utilizing and extending the Tile eDSL to define individual operations.

#### **2018 | MOHAWK RIVER AMBIENT COMPUTE PROTOTYPE**

Created a Face Recognition Module utilizing a 360 camera device for a multi-OS multi-processor shared peripheral system.

- Prototype showcased in COMPUTEX 2019.

#### **2016 | TELECONFERENCING & iROBOT OBSTACLE AVOIDANCE**

A 360 teleconferencing application capable of handling a dynamically changing environment with automatic speaker detection & an iRobot device with obstacle avoidance capability were created using multi-camera depth data and computer vision algorithms. Built using Intel RealSense Cameras.

- Received a significant effort and achievement award and compensation bonus for measurable work group impact.

### **MENTOR GRAPHICS**

#### **2009 | C, C++ | AES-XCBC-MAC ( RFC 3566 )**

AES-XCBC-MAC implementation for Nucleus Cipher Suite (security library for the Nucleus RTOS that bundles together a set of authentication and encryption algorithms)

#### **2008 | C, C++ | SPI DRIVER ( NXP LPC3250 )**

Nucleus SPI Driver support for the NXP LPC3250 controller