

# Archit Checker

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## EDUCATION

### ASHOKA UNIVERSITY

#### COMPUTER SCIENCE

Expected May 2020 | NCR, India

Cum. GPA: 3.84/4.0

Major GPA: 3.84/4.0

Dean's List: All Semesters

### CITY MONTESSORI SCHOOL

Grad. May 2017 | Lucknow, India

Grade 12: 90%

Grade 10: 96.2%

## LINKS

Github:// [checker5965](#)

LinkedIn:// [architc](#)

## COURSEWORK

### UNDERGRADUATE

Advanced Programming

Algorithm Design and Analysis

Computer Organization Systems

Operating Systems

Advanced Computer Architecture

Computer Security and Privacy

### MOOCS

CS50x: HarvardX (View Certificate)

Kaggle Learn (Machine Learning)

### MISC. COURSES

IR and Data Mining: IITK Summer School

Big Data: Prof. Jeniffer Widom

## SKILLS

### PROGRAMMING

Intermediate:

Java • C • Python

Beginner:

JavaScript • C++

### TOOLS

Flask • jQuery • git

LaTeX • CSS • HTML

### DATA ANALYSIS

Python • R

SQL • Tableau • SKLearn

## EXPERIENCE

### LEHIGH UNIVERSITY | RESEARCH INTERN

June 2019 – Present | Pennsylvania, USA

- Worked on simulating cochlear implants using digital signal processing techniques in C++, MATLAB, and Python.
- Developing a PWA and an android application for the project.

### TRIVEDI CENTRE FOR POLITICAL DATA | FULL STACK INTERN

Dec 2018 – Feb 2019 | Sonipat, India

- Added functionality for reading custom datasets and realtime ID, Column, and Sort spec changes to Surf - A name resolution software.
- Mined Normalization rules using an approach that utilizes the edit distance for name resolution.

### KING'S COLLEGE LONDON | RA TO DR. KAMINI GUPTA

Dec 2018 – Jan 2019 | Sonipat, India

- Responsible for cleaning datasets and analyzing them.
- Ran regressions on the consolidated data.

## PROJECTS

### CLASSIFIER C | MACHINE LEARNING IN C

Sep 2018 – Nov 2018

- Wrote a Naive Bayes and KNN Classifier in C from scratch in a team of two.

### BRANCH PREDICTION AND CACHE REPLACEMENT

Nov 2018

- Implemented a T-PLRU Cache Replacement policy in Champsim.
- Implemented a standalone 2-bit branch predictor that allows user to select n contiguous bits for prediction.

### RUHI WEB PLATFORM | WEB APPLICATION DEVELOPMENT

Dec 2017 – Jan 2018

- Created a Web Portal based on Flask and Python for Ruhi - A project involving teaching English to the support staff.
- Automated report, feedback, and allocation management.

## AWARDS

2019	Funding Received	uArch Workshop ISCA 2019   Phoenix, USA
2018	Winner   First Prize	Chaitanya (Leadership Event)   IIM Indore
2018	Dean's List	All Semesters   Ashoka University
2017	Finalist	Digital Masala Challenge Hackathon   Facebook
2014	Silver Medallist	District Roller Skating Championship

## POSITIONS OF RESPONSIBILITY

2019	Academic Representative	CS Department
2019	Volunteer Work	CS Curriculum Development for Neev
2017	Cabinet Member	Student Government   Finance Ministry