

# Gowtham Kuntumalla (GK)

## New Graduate Software Engineer

A proven engineer who believes that simplicity is the key to solving hard problems. Experience with both Software & Hardware. Skilled in extracting insightful results from using modern Data Science techniques



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## EDUCATION

### Master of Science (M.S.)

University of Illinois at Urbana-Champaign

08/2018 – 05/2020

3.9/4.0

### Bachelor of Technology (B.Tech.)

Indian Institute of Technology - Bombay

07/2014 – 05/2018

9.3/10.0 (Top 5%)

## WORK EXPERIENCE

### Engineering Intern

Uber Technologies Inc.

05/2019 – 08/2019

San Francisco, CA

#### Achievements/Tasks

- Created Software in C++ and Embedded Linux for IoT devices on JUMP eVehicles as a part of New Mobility Team
- Wrote Python automation scripts for testing on vehicles
- Performed Data Analytics (SQL, Python) for GPS location accuracy. Results informed leadership about future product direction
- Created a new maintenance operations model to improve operational efficiency by 70%

### Software Engineering Intern

Washington University in St. Louis

05/2017 – 07/2017

St. Louis, MO

#### Achievements/Tasks

- Successfully programmed and deployed C++ simulation models and wrappers in Particle Aggregation Science
- Automated processing of 2 TB of text data to propose a theoretical model. Received a fully-funded PhD return offer

### Software Engineering Intern

Diagnostic Micro Devices Lab , IIT Bombay

04/2016 – 07/2016

Mumbai, India

#### Achievements/Tasks

- Programmed a speed extraction tool via image processing using C++ and OpenCV for the Particle Image Velocimetry technique (PIV)
- Developed Cross-Correlation and FFT based algorithms to obtain results that are faster by 20% compared to existing algorithms

## SKILLS

C++

Python

SQL

MATLAB

Linux

Bluetooth

OpenCV

Shell

Machine Learning

HTML

## PERSONAL PROJECTS

### Coin Collector Game

- Learned Unreal Engine (Blueprints, C++) and coded the game in a record 2 days

## ORGANIZATIONS

### Teaching and Mentoring (01/2017 – Present)

Teaching Assistant (Calculus, Engineering Mechanics, Senior Design Project)

### IITB Hostel Events Administration

(03/2016 – 03/2017)

Technical Manager

### Pratham Student Satellite Team (Launched into

Lower Earth Orbit) (01/2016 – 09/2016)

Simulations Engineer

### TechFest (IIT Bombay) (12/2014 – 01/2015)

Lecture Series Organiser

## CERTIFICATES

### Lean Six Sigma (10/2015 – Present)

Machine Learning (Theoretical and Applied) Grad level courses

## INTERESTS

Badminton

Modern Computing Trends

Hiking

Long Drives

Startups

Reading Novels