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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🌐 gowthamkuntumalla.github.io/

github.com/gowthamkuntumalla

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
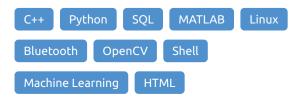Diagnostic Micro Devices Lab , IIT Bombay

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 (11/2019)
- 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