K Naveen Kumar

Software Developer with Research Appetite

I am a software Developer interested in android and web development. Enthusiastic in doing research, in the area of Cloud computing, IoT, Machine Learning, Deep Learning. Passionate towards realistic portrait sketching.

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Links

**linkedin.com/in/naveen-
kumar-a035a2129/
github.com/hope4
facebook.com/NkXplore/**

Programming Skills

Python ★★★★★
Android ★★★★☆
PHP ★★★★☆
Postgresql ★★★★☆
**IOT Program-
ming** ★★★★★
C ★★★★☆
Matlab ★★★★★
Java ★★★☆☆
HTML CSS ★★★☆☆
Latex ★★★★★

Coursework

**Computer Vision
Embedded Systems
Pattern Recognition
ComputerOrganisation
Introduction to AI
Compiler Design
DBMS
Design of Algorithms
Operating systems
Data Structures**

Experience

07/18 - now	**Project Intern**	IIT Hyderabad

Working on a project called real time two-wheeler helmet detection using YOLOv3(a deep learning concept).

01/18 - 06/18	**Internship as Innovator**	Digital Impact Square

Worked as a data analyst on a developed digitized solution on a social challenge through Design thinking, Innovation.

Research

05/17 - 07/17 **Research Internship on Resource Management using Weighted Fair-Share Queuing in Heterogeneous Cloud Computing System** IIIT Vadodara
Mentor: Dr. Reshmi Mitra (previously - Asst Prof, now - Postdoctoral Fellow at University of Missouri-Columbia, USA)
Resource management algorithm for datacenter consolidation to allocate memory, network and computational resources for heterogeneous virtual machines. The proposed algorithm performs better on throughput related metrics w.r.t. standard algorithms such as shortest job first (SJF) and First-Come-First-Serve (FCFS).

03/18 - Now **Workload Management for Fog Computing using Weighted Fair-Share Queues**
Mentor: Dr. Reshmi Mitra, **Team Member**:Jishnu Jaykumar P (Project assistant at RBCCPS, IISC Banglore)
Ongoing project to extend previous work into IoT systems for managing Skills trade-off problem between fog computing and cloud-offloading.

Education

2014 - 2018	**B.Tech in Computer Science and Engineering**	IIIT Vadodara
	CPI : 8.97/10	
2012 - 2014	**Twelfth in MPC**	Sri Chaitanya Junior College, Hyderabad
	97.7%	
2011 - 2012	**SSC**	New Nalanda High School, Tandur
	GPA : 9.8/10	

Projects

01/17 - 05/17	**Core#-A Compiler**	IIIT Vadodara
	github.com/hope4/Compiler-Design-codes	
08/16 - 12/16	**Cerious, A tool which converts natural language to C code**	IIIT Vadodara
	github.com/hope4/Project-Cerious	

05/16 - 12/17 **IOT Projects** — IIIT Vadodara
3D(6x6x6) LED display controlled by arduino micro controller, smart house, automated irrigation system, automated railway gate opener.
youtube.com/watch?v=cHeYvsKsbz8,**https://github.com/hope4/IOT**

Publications

K. N. Kumar, R. Mitra, "Resource Management using Weighted Fair-Share Queuing in Heterogeneous Cloud Computing System", *IEEE International conference on cloud computing in emerging markets (CCEM)*, 2018 (under review).

Awards & Achievements

2016 **Secured Scholarship** — Intershala VTC Scholarship
Among 4000+ applicants based on excellence in academics.

2016 **Stood 3rd in hackathon** — Google Facilitator
As a part of workshop on Applied CS with android.

2012 **Secured 2nd among 200 participants** — Dist. Level Essay writing
Held by Election commission of India on National Voter's day.

Certifications

09/2018 **Building Web Applications in PHP** — University of Michigan (Coursera)
Learnt Basic web applications in php using XAMPP server.

08/2018 **Build Your First Android App (Project-Centered Course)** — Centrale Supélec (Coursera)
Built an Android app called X_Math as final project.

02/2018 **Introduction to IOT and Embedded Systems** — University of California, Irvine (Coursera)
Learnt Basics of IOT and Embedded systems.

12/2017 **National Workshop on Entrepreneurship, Employability, Soft skills and inclusiveness** — FAEA

9/2017 **Applied CS with Android** — Google Facilitator

Other Info

2015-2016 **ART Club Secretary** — IIIT Vadodara
Organized events held in college.

2009-2011 **Senior Cadet in NCC** — New Nalanda High School
Done volunteer Services.

2016-Now **Realistic Sketching** — NK_Xplore
Running an active Facebook page called NK_Xplore with a total of 328 followers and a website called SketchIFY, doing realistic sketching of peoples' faces on charge basis.
facebook.com/NkXplore/, **sketch-ify.weebly.com/**