

Deepak Kumar

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EDUCATION

IIT KANPUR (2016)

B.TECH COMPUTER SCIENCE

KENDRIYA VIDYALAYA

CLASS-12 (CBSE)

Percentage: 97.6%

CLASS-10 (CBSE)

CGPA : 10/10

SKILLS

PROGRAMMING/TOOLS

- C/C++, C#, Python, Assembly
- Javascript, React, Redux, NodeJS
- Git, Webpack, Playwright

LINKS

Github:// [kumardeepakr3](#)

LinkedIn:// [kumardeepakr3](#)

COURSEWORK

UNDERGRADUATE

Computer Vision

ML for Computer Vision

Computer Networks

Computer Organisation

Operating Systems

Compiler Design

Advanced Linear Algebra

MOOCS

Programming Languages Part- A, B, C (Coursera)

Nand to Tetris - 1 (Coursera)

Relational Algebra (Stanford Online)

ACTIVITIES

FOOTBALL

- Represented Andaman in inter-island football competition. (2010)
- Represent Microsoft at various tournaments in Hyderabad.

BLOODCONNECT

Vice President (Helpline)

Kanpur Chapter 2014

EXPERIENCE

MICROSOFT | SOFTWARE DEVELOPMENT ENGINEER - 2

July 2016 - Present | Search Technology Center - Bing, Hyderabad, India

EDGE THIRD-PARTY WEBSITES LOGGING

Working on Chromium based Edge to log user data on third party search web-pages. Implemented the logic for cleaning personal user data from pages and integrated it with observers exposed by Blink renderer. Collaborating with teams across 3 time zones. Overall project will improve answers and services on Bing. Currently working on playwright based test framework to catch personal information leaks.

FLIGHT BOOKING EXPERIENCE ON BING

- As owner of experience, we revamped the overall design of the experience and moved it from client side API based app to mix of client-server app. This resulted in sub-second latency (previously 10s) and overall 50% increase in bookings.
- Authored schemas and API end points along with partner teams using Bond IDL for fetching, transforming and serving data to frontend on Microservice platform. This increased agility of engineering team.
- Optimized the build in CI/CD and reduced the overall time from 5mins to 30sec.
- The Engineering Design (webpack build, react-redux based UX) was leveraged by other teams in Microsoft to implement their services.

MISCELLANEOUS

Mentored interns and new hires in the team. Took bootcamp for new hires in the organization on SnR stack. Organised regular 'Tech-Talks' in the team for knowledge sharing. Took sessions on Git, MVC, Debugging, React-Redux, Webpack.

MICROSOFT | SOFTWARE DEVELOPMENT INTERN

May 2015 – Jul 2015 | Hyderabad, India

- Leveraged OpenStreetMap polygons for Business Entities like Malls, Stadiums, Restaurants and mapped them to Bing Entities. Applied string matching and polygon expansion to increase lat-long precision of Bing Business Entities.

PROJECTS

PEDESTRIAN DETECTION USING FAST R-CNN

COURSE: COMPUTER VISION, ADVISOR: PROF. V. NAMBOODIRI (JAN-APR 2016)

Finetuned ImageNet pretrained model to adapt to pedestrian detection by changing the final CNN innerproduct layer. Trained a LinearSVM for final classification. Obtained overall precision of 88.2% on INRIA person dataset.

COMPILER FOR PERL

COURSE: COMPILER DESIGN, ADVISOR: PROF. SUBHAJIT ROY (JAN-APR 2015)

Implemented end to end compiler for perl in python generating machine code for x86 architecture. Added support for data types like int, string along with operators, statements, loops and functions (including recursive).

ACHIEVEMENTS

- C.S. Venkataraman Memorial Award for securing State Rank 3 in Kerala in Regional Mathematics Olympiad 2011 (RMO - precursor to INMO).
- B.R. Ambedkar National Merit Award for highest marks in CBSE (Science-Medical) in the country among all eligible candidates (2012).
- Among top 0.1% of students with highest marks in CBSE Physics (2012).
- State Rank 1 in National Science Olympiad organised by SOF (2009).