

Deepak Kumar

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#, Go, Python
- Javascript, React, 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).
- Represented Microsoft at various corporate tournaments in Hyderabad.

BLOODCONNECT

Vice President (Helpline)

Kanpur Chapter 2014

EXPERIENCE

GOOGLE | SOFTWARE DEVELOPMENT ENGINEER - 3

June 2022 - Present | Google Cloud Platform, Bengaluru, India

DISTRIBUTED CLOUD EDGE (GDC)

Streamlining the New Product Introduction (NPI) of compute SKUs for GDC, ensuring a high-quality hardware deployment at scale. Worked on hardware management with Google stack using redfish APIs. Managed and maintained critical software services and build processes, ensuring system stability and reliability. Increased test pass rates for key systems from 0% to 73% and significantly improved overall system test health.

TELECOM NETWORK AUTOMATION AND TELECOM DATA FABRIC

Developed CI pipelines that reduced code testing time by 77%. Designed and implemented a GCS data emulator with support for multiple formats (CSV, Avro, JSON) based on a producer-consumer model, improving unit testing efficiency and reducing memory footprint from GBs to MBs. Created and implemented a checksum-based data validation library for TDF, enabling testing with significantly larger datasets (1 million rows vs. 3 rows).

MICROSOFT | SOFTWARE DEVELOPMENT ENGINEER - 2

July 2016 - June 2022 | Search Technology Center - Bing, Hyderabad, India

EDGE THIRD-PARTY WEBSITES LOGGING

Developed features for Chromium-based Edge, including user data logging on third-party search pages and personal data cleanup using Blink renderer observers. Coordinated across global teams to enhance Bing's result relevance and services. Built playwright-based test frameworks to identify PII leaks.

FLIGHT BOOKING EXPERIENCE ON BING

- Revamped experience design from client-side API to a client-server mix, achieving sub-second latency (previously 10s) and a 50% increase in bookings.
- Developed schemas and APIs using Bond IDL for data transformation and delivery on internal Microservice platforms, enhancing engineering agility.
- Optimized the build in CI/CD and reduced the overall time from 5mins to 30sec.
- Engineering design (webpack build, React-Redux UX) adopted by other Microsoft teams for their services.

MISCELLANEOUS

Mentored interns and new hires; led bootcamps on SnR stack for onboarding. Organized team "Tech-Talks" for knowledge sharing. Conducted sessions on Git, MVC, Debugging, React-Redux, and Webpack.

MICROSOFT | SOFTWARE DEVELOPMENT INTERN

May 2015 - Jul 2015 | Hyderabad, India

- Utilized OpenStreetMap polygons to link Business Entities (e.g., Malls, Stadiums, Restaurants) to Bing Entities. Enhanced lat-long precision of Bing Business Entities through string matching and polygon expansion.

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).