KARTIKEY TEWARI

Bengaluru, Karnataka, India

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EXPERIENCE

Unlogged (Videobug YC S22)　　　　　　　　　　　　　　　　　　**September 2023 – Present**
Software Engineer　　　　　　　　　　　　　　　　　　　　　　　　　　　*Bengaluru, India*
- Improved run-time complexity of SDK by 82% through selectively logging methods using bytecode injection.
- Improved customer retention rate by 47% in a quarter by resolving key production issues in SDK and plugin.
- Built the Unlogged server from scratch to generate code observability. It got launched at SpringIO conference 2024.
- Built server integration in IntelliJ plugin. It was released on Product Hunt and became #4 top product of the day.

Amazon　　　　　　　　　　　　　　　　　　　　　　　　　**June 2022 – March 2023**
Software Developer Engineer 1　　　　　　　　　　　　　　　　　　　　　*Bengaluru, India*
- Worked on Wireless Remote Locking platform and made the service compliant to DSAR and On-Demand Data Deletion policy.
- Worked on Amazon Detail Page widgets, and built experiments to measure and improve customer experience.
- Wrote a SQL abstraction layer using **Python** over **DynamoDB** that makes ad-hoc batch operations faster by a factor of 12 times. It also supported parallelization and had in-built support for deployment on **EC2** instances and **AWS Batch** compute.

Source.One　　　　　　　　　　　　　　　　　　　　　　　　**May 2021 – August 2021**
Software Developer Intern　　　　　　　　　　　　　　　　　　　　　　　　*Pune, India*
- Developed, a Data Analytic Website from scratch for determining real time bottle-necks in logistics.
- Created **Python** scripts that mined data from **S3 Glaciers**, and generated insights from them. These insights were stored in **MongoDB**.
- Designed REST APIs using **NodeJS**, to provide data on analytics website. It helped reduce order fulfillment time by 17%.

NIT Hamirpur　　　　　　　　　　　　　　　　　　　　　　　　**May 2020 – July 2020**
Research Intern　　　　　　　　　　　　　　　　　　　　　　　　*Himachal Pradesh, India*
- Designed a new tree based Data Structure and the algorithms to build and perform range-based queries on it.
- Implemented the proposed Data Structure and contemporary methods using **C++** to determine the experimental efficiency.
- Reduced Time complexity for operations by 900% while reducing space complexity by 25% for storing data.
- Authored a research paper on the tree, that is published by IJIT, Springer Publications a SCOPUS Indexed Journal.

EDUCATION

National Institute of Technology, Hamirpur　　　　　　　　　　　　　　　　**2017 – 2022**
Masters of Technology in Computer Science and Engineering　　　　　　　　　　*CGPA: 8.50*
Bachelors of Technology in Computer Science and Engineering　　　　　　　　　*CGPA: 8.15*
Completed Bootcamps on Udemy in MySQL, MEN Stack, Git and Github

Delhi Public School, Vidyut Nagar　　　　　　　　　　　　　　　　　　　**2015 – 2017**
Class-12 CBSE Examinations　　　　　　　　　　　　　　　　　　　　　　　*92.8%*
Class-10 CBSE Examinations　　　　　　　　　　　　　　　　　　　　　*CGPA: 10.00*

PROJECTS

Statistical Model for Text Summarisation [Github] [Paper]
- Made a statistical model using **Python** to generate multi-document text summaries, that also took into account contextual meaning.
- This improved ROUGE-L F1-score on standard datasets by 1.08% over state-of-art machine learning algorithms.
- Wrote a research paper on the same, that got presented in CVMI conference conducted by IIIT Allahabad.

Yelpcamp [Github]
- Developed a website using **Javascript** where users can share there reviews of different campgrounds.
- Implemented functionalities such as user profiles and editing/deleting of comments.
- Used **NodeJS** and **ExpressJS** for developing the back-end, and **MongoDB** for database management.

ACHIEVEMENTS

Scholarships
- 2021: Cleared GATE Scholarship by securing top 2.3% marks nationally.
- 2017: Secured 100/100 marks in CBSE Class-12 Mathematics Examination, and got recognition by MOE, GOI.
- 2015: Selected as one of top 857 students among 14,00,000 candidates, for receiving the prestigious NTSE Scholarship provided by Government of India (GOI).

Programming Contests
- Codechef: [handle: kartikey30] Maximum rating: 1927 (4-star) Ranked in top 2.4% of all users on the website.
- Codeforces: [handle: kartikey30] Maximum rating: 1601 (expert) Ranked in top 3.2% of all users on the website.
- Cleared Qualification round and advanced to Round-1 of Codejam 2021. Ranked 3996th out of total 93,000 participants.

CO-CURRICULAR SKILLS

GLUG: Have been an active member of GLUG (GNU-Linux User's Group), and have conducted four workshops on Linux Tools.

TECHNICAL SKILLS

Languages: C, C++, Java, Python, SQL, Bash, and Javascript
Technologies/Frameworks: Linux, Docker, ASM, Git, AWS IAM, EC2, S3, DynamoDB, MySQL, PostgreSQL, MongoDB and Redis