

Anish Aggarwal

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EXPERIENCE

Google

Software Developer

Warsaw, Poland

May 2023 - Current

- Orchestrated scalable, production-grade applications within Google Cloud Platform, leveraging Python and Kubernetes.
- Developed a retrieval system with complex query capabilities, using multi-modal embeddings and SCANN for efficiency.
- Instructed children in JavaScript programming, using quiz game as a practical example. Our organization was awarded the Children's University Volunteer Lecturer for 2023.

Amazon

Software Developer

Bengaluru, India

Jan 2022 - May 2023

- Enhanced efficiency by reducing latency by 2ms, cut a hop, streamlined service calls, and deprecated a redundant service.
- Designed and implemented a backup payment method flow that increased payment success rate by 72%, reducing payment delays and improving customer experience.
- Single-handedly upgraded **2k+** direct/indirect dependencies within core services.

Software Developer Intern

Jan 2022 - June 2022

- Implemented asynchronous retry mechanism based on analytical data-driven research, to reduce 34% transaction failures and, within 3 months, saved 70k+ USD.
- Ensured reliability through end-to-end integration testing and A/B testing and led to deployment in production.

LinkedIn

Software Development Engineer Intern

Bengaluru, India

May 2021 - Aug 2021

- Worked on the login team. Dealt with different member authentication flows, cache, cookie validation, and renewal.
- Reduced the signing time by **75%**, owned the project end-to-end, and successfully ramped the code to production.
- Worked with cryptographic asymmetric and symmetric encryption involving **ECDSA** and **RSA** in **C++** and **Java**.
- Conducted benchmark evaluation over the **Apache Traffic Server** to compare performance results of a standalone executable under different parameters and conditions.
- Selected as one of 26 interns from a pool of 13,000 applicants and later extended a full-time position.

Fiverr

AWS Freelancer

<https://www.fiverr.com/anishaggarwa259>

April 2021 - May 2021

- Analyzed client project needs to outline roadmap for the project, deliver finest solution in tight deadlines(usually 1 week).
- Developed **AWS** serverless Lambda using **Sharp**, **SAM** that gets triggered on an image upload in an **S3** bucket, optimize the image and stored the result in the same bucket within another folder.
- Designed and Developed an image-captioning lambda using **serverless** framework, **Cloudformation**, **TypeScript**, **lambda-layers**, and **canvas**, capable of accepting font-URL and image-URL and returning a **Base64** encoded image.

Elasticsearch

Google Summer of Code Developer

<https://summerofcode.withgoogle.com/archive/2020/projects/5640546665627648>

May 2020 - Aug 2020

- Created a playground service, to observe all permutations of each component with different configurations.
- The playground system is capable of automatically generating the correct toggle type for an attribute as well as the code configuration of the component to visualize functional output. Live Preview : [Link](#) (click the "Playground" button)
- Added a **text-diff** utility to generate a detailed set of comparisons between two text, with an average of **41ms** execution time over 1018 lines of difference.

EDUCATION

National Institute of Technology Hamirpur

Bachelor of Technology in Computer Science and Engineering CGPA: 9.01/10

Hamirpur, Himachal, India

July 2018 - May 2022

Relevant Coursework: Database Design, Object Oriented Design, Network Programming, Data structures, Algorithm Design.

ACHIEVEMENTS

- **Open Source Contributions:** Contributed to Susi.ai(Fossasia), Slate, Swift-Nio(Apple), and more.
- **Elastic Contributor Program:** Ranked **1 worldwide**, and awarded during the Elastic conference by the **CEO**. *Feb 2021*
- **Facebook, Open Source Immersion Program:** Participated in open source Immersion Challenge. *2020*

SKILLS

- **Languages/Tools:** C++, Python, PyTorch, JavaScript, Elasticsearch, ReactJs, MySQL, docker.