Anish Aggarwal

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EXPERIENCE

Google — *Warsaw, Poland*
Software Developer — *May 2023 - Current*
- Working with Java, GraphQL, Kubernetes and TypeScript.
- Building UI for on-premises Google Distributed Virtual Cloud to create, manage, and upgrade Kubernetes clusters.

Amazon — *Bengaluru, India*
Software Developer — *Jan 2022 - May 2023*
- Utilized technologies such as Java, Kotlin, AWS, XML and Git at Amazon.
- Reduced latency by 2ms, eliminated 1 hop, and deprecated a redundant service by introducing a direct call to the service instead of an indirect one
- Leading design architecture reviews with peers and stakeholders to decide on strategies for ambiguous projects.
- Single-handedly upgraded **2k+** direct/indirect dependencies within core services.

Software Developer Intern — *Jan 2022 - June 2022*
- Conducted analytical data-driven research to identify use cases for improved user experience through transaction retry.
- Single-handedly designed & integrated a retry mechanism using multiple asynchronous microservices to reduce 34% transaction failures and avoid payment delays.
- Ensured reliability through end-to-end integration testing and A/B testing and led to deployment in production.

LinkedIn — *Bengaluru, India*
Software Development Engineer Intern — *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.

Fiverr — *https://www.fiverr.com/anishaggarwa259*
AWS Freelancer — *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.
- Reduced the image size to **40%** of the original and helped attain low latency response in mobile.
- 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.

Elastic — *https://summerofcode.withgoogle.com/archive/2020/projects/5640546665627648*
Google Summer of Code Developer — *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.
- Added a **text−diff** utility/hook to generate a detailed set of comparisons between two text, with an average of **41ms** execution time over 1018 lines of difference.
- Automated website using **AXE** to make website accessible and compliant with **W3C** Web Accessibility Initiative.

EDUCATION

National Institute of Technology Hamirpur — *Hamirpur, Himachal, India*
- *Bachelor of Technology in Computer Science and Engineering* ***CGPA:*** 9.01/10 — *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++, JavaScript, TypeScript, GraphQL, Elasticsearch, ReactJs, Python, MySQL, Java.