

Anish Aggarwal

Github/anishagg17 | LinkedIn/anish1712 | anish17122000@gmail.com | Portfolio: anishagg17.github.io | +91-70189-44348

EXPERIENCE

Amazon

Software Developer

July 2022 - Current

- Working as a part of Amazon Pay team and utilizing **Java**, **Kotlin**, **Mokito**, PowerMock, Git, DynamoDB.
- Leading design architecture reviews with peers and stakeholders to decide strategies for my current project.
- Remodeled APIs to validate and sanitise incoming request parameters to prevent code injection and vulnerabilities.
- Created monitoring dashboards to fine tune metric, status and performance of critical functionality to identify issues.
- Single handedly upgraded **2k+** direct/indirect dependencies within our service used for Authorize & Capture Workflows.
- Troubleshoot issues and bugs discovered in integration testing to ensure consistent operation of production systems.

Amazon

Software Developer Intern

Jan 2022 - June 2022

- Utilized **AWS** AppConfig to administer confidential information from a central location for 3 different regions.
- Conducted analytical data driven research to identify use cases where transaction retry can serve better user experience.
- Single-handedly designed & integrated a retry mechanism using multiple asynchronous micro-services to reduce 34% transaction failures and avoid payment delays.
- Ensured reliability by means of end to end integration testing & A/B testing and led to deployment in production.

LinkedIn

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 managed to ramp the code to production.
- Worked with cryptographic asymmetric and symmetric encryption involving **ECDSA**, **RSA**, **AES** 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.
- Documented the steps to build a stand alone executable developed using **C++** in a virtual environment.

Fiverr

AWS Freelancer

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

April 2021 - May 2021

- Analyzed client project needs to outline roadmap for 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 stores the result in the same bucket within another folder.
- Currently used in production mode, reduces the image size to **40%** of original and helps attain low latency response.
- 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 reverting a **Base64** encoded image.

Elastic

Google Summer of Code Developer

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

May 2020 - Aug 2020

- Created a playground service, to observe all the permutations of each component with different props 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 visual the functional output.
- Added a **text-diff** utility/hook to generate a detailed set of comparison between two texts, with average **41ms** execution time over 1018 lines of difference.
- Automated website using **AXE** to make website accessible and compliant with **W3C** Web Accessibility Initiative.
- Unit tested using **Enzyme** and **Jest** to increase code coverage to 97% and **Cypress** for automated web testing.

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.

LEADERSHIP AND ACHIEVEMENTS

- **Open Source Contributions:** Contributed to Susi.ai(Fossasia), Slate, Swift-Nio(Apple) and 8 to 12 more. 2021
- **Elastic Contributor Program:** Ranked **1 worldwide**, and highlighted during Elastic conference by the **CEO**. Feb 2021

SKILLS

- **Languages/Tools:** C++, JavaScript, TypeScript, GraphQL, Elasticsearch, ReactJs, Python, GCP, MySQL, ElectronJs.