

Anish Aggarwal

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EXPERIENCE

Amazon

Software Developer Intern

Jan 2022 - Current

- 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.

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.

Major League Hacking

<https://github.com/MLH-Fellowship/3.0.0-repo-rankr>

Major League Hacking Fellow

June 2021 - Aug 2021

- Collaborated in a team of 4 to develop RepoRankr(Web app), to scan any GitHub Repository and determine a Grade score for how well the repository conforms to best practices of Open Source.
- Contributed to Slate open source code-base, the most popular rich text editor framework for React used by **64.3k** users.

Fiverr

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

AWS Freelancer

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.
- Integrated Stripe payment web-hook to manage different subscription types and trials within existing **Amplify** app.

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 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 accessibility testing using **AXE** and unit tests using **Enzyme** and **Jest** to increase robustness by 71%.

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.

PROJECTS

Desktop IDE (Electron, React, NodeJs, TypeScript, Webpack)

github.com/anishagg17/Ide_desktop

- A Desktop tool to compile and edit *C++ or Python* code and render output based upon user-provided input.
- Implemented functionalities like syntax highlighting, working on multiple files and handled inter process communication.

LEADERSHIP AND ACHIEVEMENTS

- **Open Source Contributions**: Contributed to Jest(Facebook), Susi.ai(Fossasia) , Bulldozer(Palantir) and 8 to 12 more. *2021*
- **Elastic Contributor Program**: Ranked **1 worldwide**, and was highlighted during Elastic conference by **CEO**. *Feb 2021*

SKILLS

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