Anish Aggarwal

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EXPERIENCE

Amazon

Software Developer   *Jan 2022 - Current*
- Working as a part of Amazon Pay team and utilizing **Java**, **Kotlin**, **Mokito**, PowerMock, Git, and DynamoDB.
- Leading design architecture reviews with peers and stakeholders to decide on strategies for my current project.
- Single-handedly upgraded **2k+** direct/indirect dependencies within our core services.
- Troubleshoot issues and bugs discovered in integration testing to ensure consistent operation of production systems.

Software Developer Intern   *Jan 2022 - June 2022*
- Conducted analytical data-driven research to identify use cases where transaction retry can serve a 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 through 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** 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.

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 stored the result in the same bucket within another folder.
- Reduced the image size to **40%** of the original and helps 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 reverting 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 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 visualize the functional output.
- Added a **text−diff** utility/hook to generate a detailed set of comparisons between two texts, 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.
- 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.

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 awarded during the Elastic conference by the **CEO**.   *Feb 2021*

SKILLS

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