# Anish Aggarwal

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## EDUCATION

**National Institute of Technology Hamirpur** *Hamirpur, Himachal, India*
- *Bachelor of Technology in Computer Science and Engineering* ***CGPA:*** 9.21/10        *July 2018 - May 2022*

*Relevant Coursework*: Operating system, Computer Networks, Data structures, Relational Databases, Algorithm design.

## EXPERIENCE

**Amazon**
*Incoming Software Developer Intern*      *Jan 2022 - June 2022*

**LinkedIn**
*Software Developer Intern*      *May 2021 - Aug 2021*
- Worked on login team. Dealt with different member authentication flows, cache, cookie validation and renewal.
- 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.
- Reduced the signing time by **75%**, owned the project end to end and managed to ramp the code to production.

**Fiverr**      *https://www.fiverr.com/anishaggarwa259*
*AWS Freelancer*      *April 2021 - May 2021*
- Developed AWS serverless Lambda using **Sharp**, **SAM** that operates on newly uploaded images in an S3 bucket within a specific folder, optimize them for the web, and store them in the same bucket within another folder.
- Currently used in production mode, reduces image size to **40%** of original and helps attain faster responsiveness.
- Developed a image-captioning lambda using **serverless** framework, **Cloudformation**, **TypeScript**, **lambda-layers** and **canvas**, capable of accepting font−url and image−url and responds back with **Base64** encoded image.
- Worked with **Amplify** to integrate Stripe payment workflow based upon different subscription types and trials.

**Caarya Labs**      *https://zunavish.com*
*Full Stack Developer*      *Oct 2020 - Nov 2020*
- Developed Zunavish, an online Job portal. Currently being used by **20+** companies.
- Worked with ReactJs, goLang, MUX and AWS(**Elastic Beanstalk, S3, DynamoDB, Lambda, CodePipeline**).

**Elastic**      *https://eui.elastic.co/pr_3681/#/navigation/button/playground*
*Google Summer of Code Developer*      *May 2020 - Aug 2020*
- Worked on Elastic UI team, a component library to build UI of **Kibana**, **elastic-charts** and other products.
- Developed a playground service, to see in real time how different props configurations affect visual and functional output. The playground system is capable of automatically generating the correct toggle type for a prop as well as the code configuration of the component.
- Added a **text−diff** utility/hook to generate a set of detailed comparison between two texts.
- Automated accessibility testing using **AXE** and debugged several issues.
- Designed tests for several components using **Enzyme**, react-test-renderer and mocked several functions using **Jest**.

## PROJECTS

**Voice To Gender Classifier (Python, MFCC, Librosa, GMM)**
- Python project to identify a voice as male or female, based upon acoustic properties of the voice and speech.
- Trained two Gaussian Mixture Models (GMMs), one for each genre on the feature matrices created by extracting MFCC features from the training set by processing audio. Achieved **94%** accuracy.

## LEADERSHIP AND ACHIEVEMENTS

- **ACM ICPC**: Achieved **21st** rank among 1500 teams for Asia Kanpur onsite region.      *Aug 2021*
- **Open Source Contributions** : Contributed to Jest(FB), Susi.ai(Fossasia) and Bulldozer(Palantir)      *2021*
- **Elastic Contributor Program**: Ranked **1 world-wide**, and was highlighted during Elastic Community Conference. *Feb 2021*
- **CodeAgon, CodeNation**: Attained a global rank of **16** out of 50k participants.      *Sep 2020*
- **CodeChef Coding Competition, July Lunchtime**: Ranked **8/11k** globally and among top 3 Indians.      *July 2020*

## SKILLS

- **Languages/Tools**: C/C++, JavaScript, HTML, TypeScript, React, Go, Python, Java, NodeJs, AWS, MySQL, Electron.js.