Anand Tyagi

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EDUCATION

New York University: Bachelor of Arts in Computer Science and Data Science   May 2021
Languages: Python, Java, Kotlin, Javascript, Typescript, Bash, R, C, C++
Libraries and Frameworks: Pandas, NumPy, Scikit-learn, PyTorch, React, Node.js, p5, Elasticsearch, Flask, OpenCV

WORK EXPERIENCE

Flexport, *Unicorn building a web platform for freight forwarding,* Bellevue, WA   Jul 2021 - Present
Software Engineer I, Legal and Compliance Technology Team, Trade Graph Data Authority Team
- Currently leading the Restricted Countries Scanning project which scans all active quotes and shipments for restricted countries. Responsible for product discovery, technical discovery, and leading a team of two other engineers.
- Implemented new tooling for the TSA team to allow them to more quickly and easily update screening status of shipments and cargo.
- Implemented code architecture rules using ArchUnit in order to improve our team's code quality. Used these architecture rules to report code quality metrics for the team. Additionally, wrote the internal documentation for how to improve company wide code architecture and report architecture metrics using ArchUnit.
- Responsible for building the Denied Party Screening (DPS) service which processes 60k entities daily to ensure all parties involved in our shipments are compliant with the legal standards they have to adhere to.
- Built a form UI for the Customs Trade Partnership Against Terrorism form that all Flexport customers have to go through. This product helped to make the form easier to fill out by providing a user-friendly interface and streamlining the annual renewal process. Also involved in the product design and project planning for this product.

Klarity, *AI start-up focused on automated customer contract review,* San Francisco, CA   Jan 2021 - Apr 2021
Software Engineer Intern
- Used Python and AWS Textract to extract and display necessary information from tables in PDF documents. This was integrated into the website's automated demo.
- Wrote a Python script to extract handwritten signatures from images using OpenCV and synthetically created a dataset of signed documents to train a signature detection model.
- Created an analytics dashboard using Elasticsearch and Kibana to present during product demonstrations.

Incedo, *Analytics and technology services firm,* San Francisco, CA   Jun 2020 - Aug 2020
Data Scientist Intern
- Built models in Python for credit risk defaulting prediction.
- Tasked with cleaning and organizing the data, providing preliminary insights on the data, and creating linear regression, random forest, and XGBoost models to determine which applicants are most likely to default.

Gulaq, *Robo-advisory fintech startup focused on India,* Millburn, NJ   May 2019 - Aug 2019
Web Development Intern, Algorithm Research Intern
- Created a survey using Javascript and React for users to input their financial information to make personalized financial investment recommendations.
- Developed a new algorithm for optimizing the investment of a lump sum of money over multiple funds with multiple constraints. Outperformed 100% of test cases against their old algorithm and is still used by the company today.

PROJECTS

Using Statistical Weighting and Popularity Ranking for Extractive Summarization   May 2020
Co-Author, submitted to COLING'2020
- Natural language processing research paper describing a new method for extractive summarization.
- Developed and coded the novel method presented in this paper.
- The program scored as the second highest extractive-only summarization system on the Cornell NEWSROOM leaderboard.

Showcase, NYU, Project Manager and Full-stack developer   Jul 2020 - Jan 2021
showcasenyu.herokuapp.com
- Website created with Typescript and React that showcases independent projects and research papers made by NYU students.
- Wrote the initial version of the website and managed a group of three developers who continued building up the website.

VERS, MIT, Software developer, 2022 Webby Award Winner: Best Social Gaming Experience   Jul 2020 - Dec 2020
versproject.herokuapp.com
- Virtual escape room experience built as a substitute for in-person escape rooms during the COVID-19 pandemic.
- Created two of the puzzles presented in the escape room using Javascript and React.

SKILLS and INTERESTS

Skills and Interests: Languages (Hindi, Korean), Piano (performed at Carnegie Hall and Lincoln Center), Magic (12 years), other instruments (electric and acoustic guitar, percussion), Travel (25 countries, NSLI-Y scholarship)