Rounak Vyas

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Education

Aug. 2022 - Present	**Master of Science (M.Sc)**, *Computer Science, Vrije Universiteit Amsterdam and Universiteit van Amsterdam (Joint Degree)* , Amsterdam, The Netherlands. Track: Software Engineering and Green IT.
June 2016 - July 2020	**Bachelor of Technology (B.Tech)**, *Information Technology, SRM Institute of Science and Technology*, Chennai, India. Undergraduate Thesis: Classification and Localisation of acne lesions using Object Detection Algorithms. CGPA: 9.28/10.00

Work Experience

Nov. 2021 - June 2022 — **Software Engineer**, *Solutions Engineering Team, **Skit.ai***, Bangalore, India.

- Handled the end-to-end development and deployment of a voice bot including laying out the roadmap with the client to create the APIs for client integrations.
- Developed analytics dashboards for clients using PostgreSQL and Metabase. I contributed to the data pipeline to get real-time analytics regarding a client's metrics based on an Argo workflow integrated with a data ingestion pipeline.
- Responsible for developing a notification system for the voice bots to trigger SMS and Email to callers as and when required. It was an internal tool of the solution engineering stack.

Aug. 2020 - Oct. 2021 — **Software Engineer**, *Risk Finance and Treasury Team, **Barclays***, Pune, India.

- Architected and Implemented a custom job scheduler using Quartz that handles data-archival processes across various teams inside the company. The scheduler is integrated and synchronised with other micro-services.
- Helped set up a caching layer over the main API that deals with storing metadata information to provide dataset management services. It improved the registration time of new trade datasets.
- Implemented a custom date-formatter for end-users to create custom dates on the fly while using the main metadata API, among other features and bug-fixes.

Internships

Jan. 2020 - July. 2020 — **Research Intern**, *CET, **Harvard Medical School***, Cambridge, Massachusetts.

- Worked under Dr Shiladitya Sengupta at Center of Engineered Therapeutics (CET), on Object Detection Algorithms such as Faster-RCNN and RetinaNet for localisation and classification of acne lesions.
- Worked under Dr Vivian Lee, on an Automatic XY Calibration System for Aether 3D-Bioprinter which calculates XY offsets of multiple extruders using Computer Vision.

Dec. 2018 - Jan. 2019 — **Software Technology Intern**, *Tax Applications Team, **Thomson Reuters***, Hyderabad, India.

- Worked in a team of 3 interns to implement a Proof of Concept to integrate ELK (Elasticsearch, Logstash, Kibana) Stack to an existing chatbot for real-time log aggregation, analysis and querying.
- Designed and implemented internal tooling to improve indexing time of documents by 85% with the help of parallelism.

Programming Skills

Languages: Java, Python, C/C++   **Frameworks**: Spring, Flask, Django, OpenCV
Databases: PostgreSQL, Elasticsearch   **Work Flow**: Git/GitHub, LaTeX, Docker

Projects

- **calibCV**: An automatic XY calibration system for Aether 3D-Bioprinter using Computer Vision. A flask web app to calculate XY offsets of multiple extruders of a 3D Bio-Printer. The project was under the supervision of Dr. Vivian Lee, Harvard Medical School.
- **markov-gen**: A Markov Chain Text Generator used to randomly generate (somewhat) realistic sentences, using words from a source text. Words are joined together in sequence, with each new word being selected based on how often it follows the previous word in the source document.
- **es-indexer**: A PyPi package to populate json data into elasticsearch efficiently using multi-threading.

Awards and Extracurriculars

Aug. 2022	Vrije Universiteit Fellowship Programme, Scholarship, 2022-2023.
Aug. 2019	Speaker, PyCon New Zealand (Kiwi PyCon X), Scholarship: 500 NZD.
Mar. 2019	3rd Place, Ctrl-Alt-Code IoT Hackathon. Team Captain: *Park.ai*.
Jun. 2018	Academic Scholarship, Department Rank Holder List, SRM IST, 2017-2018.
Aug. 2017	Student Researcher, Artificial Intelligence, Next Tech Lab, Chennai, India.
Jan. 2012	Table Tennis: Top 8 of 100+ teams in School Games Federation of India Nationals.